# e Mining Journal RAILWAY AND

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1152-Vol. XXVII.]

LONDON, SATURDAY, SEPTEMBER 19, 1857.

STAMPED . . . SIXPENCE.
UNSTAMPED . . F: VEPENCE.

R. JAMES CROFTS, MINING AND SHAREBROKER, No. 1, FINGH LANE, LONDON (established 14 years), TRANSACTS every issed of BUSINESS in MINING SHARES, but, not being a DEALER, BUYS and SELLS ally on orders confided to him.

Mr. Guoves calls special attention to Catrements and Jame Consola, lead and tron, ferimeth, North Wales, which it is estimated will be in the Dividend List carly next new. For sales of lead ore monthly, see the reports from Holywell. The iron lode being developed, and the ore shipped to market with all possible expedition. Ten come of lead ore have just been seld, realising £150, and 10 tons are now ready for also on the 24th inst.

Mr. Cauver a size very stremuously recommends Value or Towy Minz, lead, now asying dividends. The sampling of one for the present mouth amounts to 60 tons, leing beyond previous estimates.

Considerable improvements have taken place in both the above mines during the new year, and a supplied of the contract of the Melly Space of the Melly Space of the Melly Space.

syng structures. The sampling of ore for the present snorth amounts to 60 tons, sleigh beyond previous estimates.

Considerable improvements have taken place in both the above mines during the set, seek; also, in War. Enwand, Sorthinox Consola, and Krilly Bray. Investance of the set of

MR. JAMES LANE, MINING SHARE DEALER,
19, THREADNEEDLE STREET, LONDON, has BUSINESS in...

BUSINESS in— Sortridge Consols, North Susy, Kelly Bray, Catherine and Jan Wheal Arthur, AS. B. BRENCHLEY, of 11, ROYAL EXCHANGE, LONDON is a BUYER of North Basset, North Frances, South Carn Brea, East Basset, ton Down, South Garras, Fendeen, Grambler and 8t. Aubyn, and Trewthon SELLER of Alfred Cossois, Basset, South Frances, \$230; West Damest, \$625, dig., East Basset, Vale of Yown, 19a, 3d.; Wheal Rooth, \$40; Drake Walis, Biffed, South Condurrow, North Grambier, Camborne Vean, North Downs, I Margaret, Botalisek, \$267; Kelly Bray, Lady Bertha, and Stray Park, ket prices farnished on application, or by letter; and all transactions for imte cash.—Bankers: The London and Westminsfer Bank.

has RETURNED to TOWN, having for INSPECTING several MINES in CORNWALL by information on written or personal application. I Union Bank of London. o or Sale of Mining Shares, 14 per cent.; on the liway, Bank, Insurance Shares, &c., the usual Stock

se or Sale of Consol.

Rege commission.

PETER WATSON, Solish and Foreign Stock, Share, and Mining Offices,

AT Threadneedle-street, London, E.C.

Office Hours Ten to Five, and Ten to Two on Saturday.

INE SHARES FOR SALE, some of which are paying 20 per cent, and is all probability will continue to do so for years. Also, a great year; some of PROGRESSIVE SHARES, lower than any for the past ten years present depressed state of the market offers to gentlemen a most excellent op-unity for investing in this description of property.—Apply to Mr. Lelean, No. 4, hon-court, Old Bread-street, E.C.

O CAPITALISTS .- RELIABLE INFORMATION may be OAPLIALISIS.—RELIABLE INFORMATION may be obtained on application to the undersigned, in respect of MISCELLANEOUS URITLES generally. BANKS, INSURANCE SHARES, LAND COMPANIES, ES (British and Foreign), RAILWAYS, FOREIGN STOCKS, and the PUBLIC IDS BOUGHT and SOLD at the closest market prices, and at moderate commisserences given and required. JOHN BATTERS, Stock and Sharebroker, Throgmorton-street, London, E.C.

R. F. E. BLYTH, MINING SHAREBROKER, No. 1, ST. MICHAEL'S ALLEY, CORNHILL, is commissioned to SELL SHARES in of the DIVIDEND and PROGRESSIVE MINES. As Mr. BLYTZ confines bimericity to commission business, the utmost retinance can be placed that all businstrusted to film will meet with prompt attention and regularity.

AMES H. COCK, MINE SHAREBROKER, GENERAL COMMISSION AGENT, AND ACCOUNTANT, REDRUTH, CORNWALL. reases for the FURCHASE and SALE of MINE SHARES, MINING MATE. LLS, dru, promptly strended to.

R. R. TREDINNICK, BROKER AND GENERAL DEALER GRESHAM HOUSE, OLD BROAD STREET, LONDON.

OHN GLEDHILL AND CO., MINE AGENTS, SHARE BROKERS, AND GENERAL DEALERS.

MINING RECORDS OFFICE, 7, SOUTH PARADE, LEEDS.

tines well selected are the best investments, paying from 15 to 30 per cent. on the lay. They have to OFFER SHARES in most of the DIVIDEND and PROLESSILVE MINES, and are ready to give every information relative to all mining there.—Dated Sept. 18, 1857.

R. HENRY GOULD SHARP will be happy to receive BUYING and SELLING ORDERS in every description of MINING, BANK, RAIL-INING, BANK, RAIL-INING

SELLER 100 Leds P E. GOMPERS IS A
30 Exmouth Consols, 5s.
ad Basset, 35s.
20 South Bog, 23%.
20 Harriett.
3a.
100 Chollacott, 6s. 0 F-20 Lelant Consols, £2. 100 East Russell, 37s. 50 Gawton, 17s. 64. 2 Margaret, £67%. 50 West Ting Tang. 10 Trewetha. seedle street. Hingston Down, 25. Halamanning. 3, Crown-court, Threads

UCCESSFUL INVESTMENT IN BRITISH MINES depends on a minute and comprehensive know ledge of the subject. Capitalists unacquainted the mature of mining operations and the market should set under the direction at EXPERIENCED AGENT: and as such, the undersigned OFFERS HIS SER-DES to the public in effecting PURCHASES and SALES of MINING, RAILWAY, NAING, CAMAL, INSURANCE, and any other description of stock, &c. NAING, CAMAL, INSURANCE, and any other description of property affords such large profits, with accurity from unders in a selected and honestly conducted. The large profits made, the export of mining less, the combinations constainty for from information making.

W. STOCK WELL is instructed to TRANSACT BUSINESS in the leading DI-END MINES, which are yielding on the average 25 per cent. per annum on preprise. He has series also in well-established British mines, where a rise of many dred per cent. may be expected.

F. W. STOCK WELL.

Old Broad-street, E. C.

R. S. SMITH'S BRITISH AND FOREIGN MINING AND METAL OFFICES, 15, CANNON STRRET WEST, LONDOM.

METAL OFFICES, 15, CANNON STRRET WEST, LONDOM.

SERVE takes this opportunity to announce to his friends and the public, that as OPENED OFFICES, as above, for the DISPOSAL of MINERAL PROPERFORM OF THE STREET, and hopes, by constant attention to the interest of his day, to merit a continuance of that confidence which he has bitherto erfored.

Source has at present a FEW PORTIONS of MINERAL PROPERFIRS to OSE OF, on very advantageous berms, which he can recommend with configuration of the street of inspection, itself regular returns as dividends, independent of their strady advance in value, here portions will be held by a highly respectable and influential party. Early sation by capitalists is respectfully recommended.

Tobasta and sales effected of Antimony, Ores, Regulus, Nickel, Spatter, and inherals.

BORGE MOORE, DEALER IN MINING SHARES,
1, CROWN COURT, THREADNEEDLE STREET, E.C.

GROED MOORE has POR SALE, or any part:

5 Alfred Convols, \$13%.
20 Drake Walls, \$2 11s. 3d.
5 Herodsfoot, \$8 11s. 3d.
1 Wheal Margaret, \$70.

5 Herodsfoot, £8%.

10 Balmoon Consola, £3%.

10 Balmoon Consola, £3%.

10 East Affred, £4 5e. 9d.

10 Wheal Edward, £10%.

20 East Russell, £1%.

10 Wheal Edward, £10%.

20 Wheal Ludcott, £1%.

20 Wheal Ludcott, £1%.

10 Wheal Zion, £1%.

10 Wheal Zion, £1%.

10 Wheal Zion, £1%.

10 Wheal Zion, £1%.

ESSES, J. J. REYNOLDS AND SON, STOCK, RAILWAY, AND MINING SHAREBROKERS, No. 1, ROYAL EXCHANGE BUILDINGS, LONDON, E.C., TRANSACT BUSINESS in BRITISH and FOREIGN MINES, STOCKS, and RAILWAY SHARES, on the usual commission. The Stock Exchange List of Prices trassmitted by post, with special remarks, dictated by the circumstances of the day, for the information of correspondents. Measure J. J. REYNOLDS and SON would direct attention to the undermentioned mining properties, as being well worthy of notice, more particularly to West Seton, Timeroft, North Levant, South Frances, North Frances, and the United Mines, for the investment of capital; and, on account of the exceedingly low prices of the shares, to Morth Crofty, Camborrae Yean, and East Rosewarne, for speculators.

DIVIDEND-PAYING MINES.

Alfred Consols. Botallack. Carn Brea. Condurrow. Derwent Mines. Dolcoath.

revious to payment.

Dale Mines.
East Alfred.
East Baseet.
East Hender.
East Roeewarne.
Great Wheal Busy.
North Frances.

ne Vean, and East Rosewarne, for DIVIDEND-PAYING MINES. North Roskesr. North Wheal Basset. Rosewarne United. South Wheai Frances. St. Day United. Tincroft. United Mines. Vale of Towy. West Basset. PROGRESSIVE MINES.
North Levant.
North Wheal Crofty.
Penstruthal.

South Carn Bres. South Condurrow. Trevoole. Tyne Head (Cumberi).

MESSRS. POWELL AND COOKE, SHARE DEALERS, & HERCULES CHAMBERS, OLD BROAD STREET, LONDON.

MR. G. GIDLEY, MINING SHARE DEALER AND COMMISSION AGENT, TORQUAY, DEVON.

West Caradon.
West Wheal Seton.
Wheal Balest.
Wheal Buller.
Wheal Clifford.
Wheal Margaret,
Wheal Mary Ann.
Wheal Seton.
Wheal Wrey.

Vale of Towy. Wast Crinnis. West Cupid. West Stray Park. Wheal Hender. Wheal Unity.

COMMISSION AGENT, TORQUAY, DEVON.

JAMES HERRON has FOR SALE the following SHARES, at the prices quoted, and FREE OF COMMISSION.

JOHN STATE OF COMMISSION 1.2

JOHN STATE OF COMMISSION.

JOHN STATE OF CASE.

JOHN STATE OF COMMISSION.

JOHN STATE OF CASE.

JOHN STATE OF COMMISSION.

JOHN SON SANDLE OF COMMISSION.

JOHN STATE OF COMMISSION.

JOHN SON SANDLE OF CANADAM.

JOHN SON SANDLE OF CANA

2, Adam's-court, Old Broad-sireet, Lendon, Sept. 18, 1857.

MESSRS. VIVIAN AND REYNOLDS, MINE AGENTS, 65, OLD BROAD STREET, LONDON, E.C.

Mesers. Vivian and Rivnolds are enabled, through the long experience of Mr. W. C. Vivian as an underground agent and manager of mines in Cornwall, and in various foreign countries, to afford informatian on most important mining districts; and to inspect and report on mines. They are also enabled, by the several years' acquaint-snee of Mr. J. Beynolds, jun., with the transaction of the London share market, its obtain every advantage for those who may want either to buy or sell mining or any other description of stock.

Messrs. Vivian and Reynolds have daily information from the principal seats of mining, which is at the service of those who may knoour them with their confidence. The value of mining stock generally is advancing, owing to the sounder business principles which are being introduced into this great branch of industry, and to the crilliant prospects which the prosent high price of metals give to mining enterprise. Messrs. Vivian and Reynolds are of opinion that there never was a period when mining stock offered to enterprise's os inche safety, combined with such good chances of rapidly increasing value; and, from information recently received, they would direct the attention of capitalists to the following mines, as being sound undertakings, and their market value not in proportion to their prospects:

North Roselser.

North Levant.

Messya Vyvian and Reynolds are SELLERS of the following SHARES:—

1 Wheal Basset, £22½. 50 Son, Condurrow, 4s. 6d. 5 Edward, £10%.

1 South Frances, £240. North Panhaldarva. 5 North Levant, £3½.

2 Aifved Cossols, £12½. 5 Trevois, £10. 2 Kitty (Lelant), £23½. 5 Etsay swarne, 16s. 6d. 5 North Crofty, £3½.

2 Tincroft, £4½. 5 Harriett, 10s. 10 East Aifred, £4½. 5 Wheal Grenville, 35s. Pentertubal. 8 Lelant Consols, £2½. 5 Bell and Lanarth, £3½.

MR. W. LEMON OLIVER, STOCK AND SHAREBROKER,
BUSINESS TRANSACTED IN HOME and FOREIGN RAILWAYS, FUNDS,
SECURITIES, BRITISH and FOREIGN MINES, 40.

MR. M. W. BAWDEN; MINE BROKER, GENERAL ASSAYER, AND COMMISSION AGENT, LISKEARD, CORNWALL. 22

M. R. W. H. BRUMBY, STOCK AND SHAREBROKER, 1, QUIET STREET, BATH, is in a position to give the BEST ADVICE in the SELECTION and PURCHASE of DIVIDEND and PROGRESSIVE MINES. MR. R. LINTHORNE, ENGLISH AND FOREIGN MINING AGENT, 3, ADAM'S COURT, OLD BROAD STREET, LONDON.
BUSINESS TRANSACTED in all ENGLISH and POREIGN MINES, and other sECURITIES, on the usual terms of commission. Information afforded in respect to Dividend-paying and Progressive Mines.

MR. F. LISABÉ, C.E., CONSULTING MINING ENGINEER, Mr. LISABE, may be CONSULTED personally, or by letter. His long experience in Ireland will be found useful to expitalists desirous of investing money in mining and other speculations in that country.

HEET ZINC AND SPELTER.—Mr. WM. JOHNSTON,
49, MITCHELL STREET, GLASGOW, AGENT for the SILESIAN SPELTER and SHEET ZINC. Stocks generally kept in Glasgow, Leith, and Hull. Can
ship direct from Stettin or Hamburg to Lendon or Liverpool with promptness on
best terms.

MESSRS. A. J. HUTCHINGS AND CO.'S
PATENT IMPROVED WIRE ROPE.

LORDS OF THE ADMIRALTY, THE FRENCH AND TURKISH GOVERNMENTS,
And the principal Colliery Proprisors throughout the kingdom.

MANUFACTORY, MILL WALL, POPLAR, LONDON.

ROUND and FLAT ROPES of every description, satisable for mining operations or other purposes, GALVANISED or UNGALVANISED, MANUFACTURED upon the newest and most improved machinery, ensuring greater pliability, durability, and strength; and is admitted by the principal coal propristors to be far superior to any other kind of wire rope. The superiority of these ropes over hempen ones, in point of strength, lightness, durability, and cost, is admitted by all who have tried them.

GUIDE ROPES, SIGNAL CORD, LIGHTNING CONDUCTORS, &c. 2.

MESSES. T. P. THOMAS AND SON,
MINING AGENTS.

2, CROWN COURT, THREADMEEDLE STREET, LONDON;
AND AT 11, DALE STREET, LIVERPOOL.

Messrs. T. P. TROMAS and Son beg to inform their friends and the public that, having made arrangements for immediate information of the changes in the appearances of the different mines in Cornwall and Waies, they will be enabled to advise as to purchases or sales.

Mr. T. P. TROMAS having had 15 years' experience of the market and general management of mines, and his son having had considerable experience as a practical miner in Wales and in Cornwall (under Capt. Joseph Vivian, of North Roskear), they flatter themselves they are enabled to give as reliable information and advice as it is possible to have, and which they will at all times have much pleasure in giving, either verbally or by letter.

Messers. T. P. TROMAS and Son's charges are 2% per cent. commission; but, as desiers, they will be happy to charge or pay nett prices.

MR. T. P. THOMAS, MINING AUCTIONEER, 2, CROWN COURT, THREADNEEDLE STREET, LONDON. 29

NOTICE OF REMOVAL.

3, PINNER'S COURT, OLD BROAD STREET, LONDON. 2/

NOTICE OF REMOVAL.

3, PINNER'S COURT, OLD BROAD STREET, CITY.

R. JOHN R. PIKE, in acknowledging the liberal support he has received since commencing business as MiNING and SHAREBROKER, begs to inform his friends that he has, for the greater facility of business, REMOVED to the above address, where he will continue the strictest attention to all business confided to him, whether in the purchase or sale of mining shares.

Mr. J. R. Pike issues daily, when applied for, a List of transactions in the Mining Exchange, and he piedges himself to do business at a moderate rate of commission, and in all cases to earefully study the interests of his clients.

WILLIAM MARLBOROUGH, MINING AGENT, (For many years with Mr. T. P. Thomas), 57, OLD BROAD STREET, LONDON.

MR. WILLIAM MOORE, STOCK AND SHAREDEALER,
11, HERCULES CHAMBERS, OLD BROAD STREET.
N.B. Business transacted in every description of stock and shares.

J2.

MINING OFFICES .- Mr. T. CARTHEW, ST. CLARE STREET, PENZANCE.

(APT. THOMAS DUNN, of TAVISTOCK, undertakes to INSPECT, REPORT, and SURVEY any MINES or MINERAL PROPERTY in ENGLAND, IRELAND, SCOTLAND, or WALES. No objection to take the management of any mine or mines in the neighbourhood of Tavistock.

MR. FRANCIS, R. BILL, CONTRACTOR, AND GENERAL ACCOUNTANT AND AUDITOR.
32, BUCKLERSBURY, LONDON, E.C.
Contractor for the supply of rail-say materials of every description. Estimates prepared. Agencies undertaken. Accountantahip business of all kinds performed.

MR. H. HUXHAM, COLLIERY VIEWER AND MINING ENGINEER, having resigned the management of Cwmmaerbren Colliery, is NOW OPEN to PROFESSIONAL ENGAGEMENTS; and begs to assure those who may favour him with their commands that all business estirated to his charge shall receive prompt attention, and be executed with the utmost fidelity and care. References and testimonials of the highest obsracter can be produced. Terms moderate. AN IN-DOOR ARTICLED PUPIL WANTED. He would have first-rate opportunities of attaining a thorough knowledge of practical and theoretical mining engineering, in all its branches.—Font-y-pridd.

CORT'S ORT'S TESTIMONIAL FUND.—CAUTION.—
MANSFIELD alias ROBERT MARKS, of Bloomsbury-place, Brighton, having SOLICITED SUBSCRIPTIONS from the IRON TRADE wholly WITHOUT
AUTHORITY; any persons having paid subscriptions to Mansfield alias Roberty
Marks, are exceeding requested to COMMUNICATE the same to Mr. Cort, at the
Marks, Journal office, 26, Fleet-street, London.

Mesers. A. FORSTER and CO., of the UNION MINERAL WORKS, SRENT-FORD, MIDDLEGEX, are PURCHASERS of a PIRST QUALITY ARTICLE, in the crude or rough state, delivered in the River Thames. Applications to be addressed to their works at Brentford.—London, Aug. 27, 1887.

TO PARENTS AND GUARDIANS.—A CIVIL and MINING ENGINEER, and Manager of an extensive Steam Coal Colliery and Ironstone Mines in South Wales, has an OPENING for a respectable, well-educated YOUTH as an APPRENTICE, who will have every opportunity of becoming theroughly acquainted with coal and ironstone mining.—Apply to Mr. H. Mullock, printer and stationer, Newport, Monmouthshire.

THE SECRETARY of a MINING COMPANY of the highest respectability, and having OFFICES in the best part of the CITY, is desirous of UNDERTAKING the SECRETARYSHIP of another COMPANY, and could, if necessary, aid in the disposal of shares.—Address, "Q. D.," Mining Journal office, 16, Fieet-street, London.

TO MINERALOGISTS, EDUCATED MINERS, AND OTHERS.
WANTED, by a mineral merchant, a PERSON fully acquainted with mineralogy, economic geology, iron ore, and other mining, for EXPLORING and MINING IRON and OTHER ORES. Salary £100 per annum, and travelling expenses.—
Answers, stating qualifications and reference, to be addressed to "E. L. O.," Post-

WANTED, by the Pencorse Copper and Lead Mining Company, an EXPERIENCED CAPTAIN, for the SOLE MANAGEMENT of the PENCORSE MINE.—Applications to be made to the purser, Mr. J. B. Herles, No. 10, Park-row, Leeds.

RAILWAY WAGONS.—TO BE LET, on reasonable terms, a QUANTITY of 6 tons RAILWAY WAGONS.—For particulars, apply to Mr. Thos. Nurse, Wellington Chambers, Cannon-street West, London. RAILWAY, MINERAL, AND OTHER WAGONS, ON HIRE.
Apply to the Lancashire Wagon Company (Limited), Bury.

OLD TOLGUS UNITED.—SHARES FOR SALE (£30 paid), price £30; also, SOUTH GORLAND SHARES (£5 paid), price 50s.—Apply to GEORGE SPRATLET, 15, Old Broad-street, E.C.

POR SALE, TWO HUNDRED AND FIFTY GREAT CARADON SHARES, at 5s. per share.—Apply to "O. A.," Mining Journal office, No. 28, leet-street, London.

WHEAL TALLACK .- TWO HUNDRED SHARES FOR SALE,

POTTEN-STONE FOR SALE, of first quality, in lots, to suit purchasers.—May be viewed on application to Mr. James Perry, 18, Legge, Birmingham; and J. Moss and Gamble Brothens, Franklyn Steel Works, Sheffield.

OR SALE, ONE 2-tons FORGE HAMMER, nearly new, with cam, cam chaft, driving wheels, anvil, block, &c.; price £80.—Apply at Perteron Inorworks, Manchester.

WANTED, a good SECOND-HAND BOILER, of about 10 tons, with the usual fittings, for the Duke of Cornwall Mine.—Particulars and price to be sent to Mr. D. G. GOATLEY, purser of the mine, No. 31, Threadneedistreet, E.C.

STEAM BOILERS MADE BY WILLIAM WILSON, LILY BANK BOILER WORKS, GLASGOW, on the most approved principles, and delivered in all parts of England at moderate rates.

TICKEL AND COBALT REFINING, AND GERMAN SILVER WORKS, MILL STREET, BROAD STREET, BIRMINGHAM.—STEPHEN BARKER begs to inform the Trade that he has the following articles for sale;—REFINED METALLIC BISMUTH. OXIDE OF COBALT. WIRE, &c. REFINED METALLIC BISMUTH. GERMAN SILVER—IN INGOTS, SHEET NICKEL AND COBALT ORES FURCHASED.

THE MIDLAND IRON COMPANY, BOTHERHAM, YORK-SHIRE, MANUFACTURERS OF RAILWAY TYRES AND AXLES FOR LOCOMOTIVE ENGINES, OARRIAGE AND WAGON WHEELS. From the tests to which this iron has been submitted by engineers and railway companies furing several years, its superior quality has been generally acknowledged, and can be un-besicatingly shiftmed.

QUARTERLY REVIEW OF BRITISH MINING.—
Ma. MURCHISON'S REVIEW FOR PAST QUARTER, with MAP of the
OREAT WHEAL VOR and LELANT MINING DISTRICTS, IS NOW READY,
wite 1s., at 117, Blackgards story Within, London.

mining on something like genuine grounds, but has been foiled in his endawours by parties who earn their living by bringing out mines, indifferent to their fatrinsic value, or the observation of economy in carrying them out, their object being to appropriate as much as possible of the subscribed capital to their own use.

wane, or the observation or economy in carrying them out, their own use.

The usual way is which they proceed is, after obtaining a sett, they connect themselves with a few engine and material sellers, who take a large interest in the concern, and place themselves on the committee of management; they then patter in the public papers about double the mnount of money setually spent; against which they show the shares at a premium; indeed, they state anything that will at they have supplied the engine and all the penderous materials, when they begin to dispose of their shares before they come to be paid for. They still continue in office, until it is discovered that the capital is fast diminishing, when they resign their seats, and the mine is left to be conducted by the parties who were as really duped; they, not knowing anything of mining, and annuyed to find they had been made such easy pref of, throw up the sett in disgues; this is the reason it so often happens that mines are abundance before they are fairly bettim.

Consequently, I find it very difficult to recommend mines for investment, not from inability to form an opinion as to results, as I believe I am generally acknowledged a judge; the difficulty is, if the mine be good, the management is bad, therefore my friends have been constantly teasing me to bring out some under my own direction, and I have at last consented.

I observe motals are again advancing in price; and I know mines, properly selected and fairly and economically carried out, do and will pay enormous dividends.

It is my intension to purchase myself all cagines and materials from whoever they can be had of best quality, and at the lowest prices—much of which can be bought second-hand, equally useful and at much less cost.

I also intend that the resident captain, assisted by myself, shall estimate the cost of all work before it is carried out, by which means I hope to economise the expenditure, compared with the present mines cost, full one-third.

NICH. ENNOR.

## The first mine I have decided on bringing before the public is-

Capital 210,000, in 1900 shares of £10 sterling each.

Deposit £5 per share on allotment.

The remainder to be paid in two calls, at such periods as may be hereafter agreed on.

The mine to be worked strictly on the "Cost-book System," so as to avoid all liability to individual shareholders. The purser to be held liable for all arrears of calls or bills if allowed to stand over more than two mouths; if not paid within that time, he is to call a general meeting, to forfeit such shares to the company, to be resold at their discretion for the benefit of the shareholders.

DIRECTORS.

Consulting and Superintending Engineer and Manager—Mr. Nicholas Ennor.
Secretary and Purser—
Captain at the Mine—
Bankers—

PROSPECTUS.

Mr. Nicholas Emon has much pleasure in recommending to the notice of the public this celebrated old mine, which is known to have produced more tin than any other mine in the county of Devon.

The surface accountions on the lodes of this sett are immense, even exceeding those at Great Wheal Yor, or any other mine known in Cornwall or Devon. There exame to a question but that thousands of tons of tin have been extracted from this mine, still see may be set down as in her infancy, as the deepest shaft is only about 69 fms. It would be superfluous to speak of this sett as being situated in a tin dirict, as it has been generally well known and celebrated for rich tin mines from time immenorial, indeed this mine was found formerly to be so productive that it caused Ashburton to be made a coising town, where the tin was taken to be coined and stamped befor it was offered in the market, and it continued to be a coinage town until within the last half century, in fact, up to the time the law was altered for this as well as all other coinage towns. This is a sufficient proof that a considerable amount of tin was risen in this locality, and these mines ever stood forems, yielding fortunes for the lucky adventures. This is a sufficient proof that a considerable amount of tin was risen in this locality, and these mines ever stood forems, yielding fortunes for the lucky adventures.

It is still in the remembrance of many that when the mines were last worked they produced immense quantities of tin, almost sufficient to pay costs under the universal bad management of that period.

When last worked water, wheels were erected on it, but they had not half a supply of water, the result was men were kept on the mine waiting for the return of the season, a system of working which at that date nearly ruined every mine in the county, and half of those in Cornwall. It can now be proved that the workem did not earn sixpence for each shilling they received; this, and the then expensive mode of working in drawing the staff to

over, or abandom it. They made the attempt, and secured all their lift of pumps, with new buckets, clacks, &c., 150 fathoms of which are now standing in the different shafts of the mine.

The cessation of operations is to be attributed to their desire to raise a capital of \$30,000, of which £20,000 was to go into the pockets of the old adventurers for work done, but when their intentions became known they, of course, failed to raise the desired sam on such conditions, and after quarrelling amongst themselves, the mine was neglected, and ultimately abandoned, with a large quantity of materials on it.

Having obtained a new grant of this sett, it is with great satisfaction that I state the lords of the soil, as well as mine adventurers, now know the value of the stemogine, and are aware of its capabilities, consequently the lords have granted at the very moderate dues of 1-20th for tin, and 1-15th for copper, if worked by steam power. This mine can be quickly laid open, and every man so placed as to carn a shilling before he receives it.

Judging from the unanimous reports, the result of this mine must ultimately be profit to the adventurers, as can be seen by reference to a former account, where it shows that by an outlay of £5000 exclusively for mining purposes, they returned £14,000 worth of tin and copper, in less than three years, commencing in 1848, and very rich in quality, as it fetched the best price of any in the county; and farther, that during the five enesting years, in to the amount of £50,000, and sold at an average price of £40 per ton, whereas it would now bring £300 per ton, or for round numbers say double what it then fetched, or about £100,000; therefore, had the mine been fairly managed, it would then have paid a handsome profit; under the present price of tin it would have paid a brow £50,000.

On an inspection of the plans, it will be seen that this sett was worked as three distinct mines. First—The Union or Eastern Mine, on a tin and copper lode; second—North Great Beam lode, and South Gre

theri, in fact, such as is not often met with.

There are also three or four very promising lodes, with old workings on them, stil farther south, which can be worked in conjunction with this mine, or separately an adit has already been extended 90 fms. towards these lodes, but they have not as

yet been cut.

In working these mines, it is not prospecting as it were in search of ore, as it is well known by hundreds to be, there; witness the quantity of ore, that has been returned since the last company ceased working—a miner, an invalid, with four assistants, have risen £5000 worth of tin, and they are now returning nearly a ton of tin

turned since the last company ceased working—a miner, an invalid, with four assistants, have risen £5000 worth of tin, and they are now returning nearly a ten of tin per month from the refuse.

These mines can be laid open by means of two steam-engines, one for pumping, and the other for drawing the stuff to surface and crushing the ore. The ground is very easy for excavating shafts, levels, and pitches; pitches that cost in the last working 5s. in £1 can now be worked for 2s. 6d. In £act, it is apparently a most extraordinary mine, as every one speaks well of it, stating it to be a good mine, rained when last worked by heedless expenditure and universal bad management. It will be seen on perusing the report of Capt. Hosking (an old practical tinner of fifteen years standing in the mine, and one who drove scores of fathoms of the levels on tribute, by which he did well), that in the back and bottom of the flower level at Hobson's shaft, there is a lode now standing worth £600 per fm. Now if it be only half as good as reported, shares will be at a premium before the water is out, which can be accomplished in a few months, the mine being shallow.

If the lords of the soil would permit, I should have stamps erected, and from the adit send thin to grass sufficient to pay a dividend (as they are now doing at Great Polberro), before commencing to open the mine, when in lieu of giving her away, as I now propose in free shares as it were, I should be enabled to sell the mine at a very advanced price.

CAPT. WILLIAM HOSKING'S REPORT.

as I now propose in free shares as it were, I should be enabled to sell the mine at a very advanced price.

Ashburton, Aisp. 16, 1857.—I beg to hand you a few observations on the Owladones, or Assumance Universe Mayine Bert; and from my long experience in these mines, having worked in these from 12 to 15 years, I believe I have it in my power to give considerable information, both as regards the nature of the country and the character of the lodes. The extent of the set is very great, being one mile wide, and one mile on the run of the lodes, of which there are eight aircraft known, five of them tin, one a champion copper lode, and the others producing both copper and tin. The lodes run about 22° south of enat and north of west; the stratification is a beautiful soft killas, and near the granite junction. The surface workings are of immense extent, and probably executed many centuries since. Within the last 20 years, I may safely say £100,000 worth of the and copper has been raised and only to what extent it would be impossible for me to say; here you will naturally say, how did the mines become abandoned? It arose from want of smilliest mechanisery to keep the levels clear of water, the only power being that of water, which invariably fails for five or six months in the year; unfortunately also, the company under which I worked claimset the right of taking water and conveying the same without consent or purchase, the consequence was a law suit, entailing a loss of from £15,000 to £30,000 to the adventurers, who failed in establishing their claims. There is one common adit running through these mines. The first shaft intersected by it is the Union shaft, at 12 fms. from surface; the next going west is

ORKAT WHELL VOLES LEAD 19 10 CONTRACTS, IS NOW READ 1, price 18, at 113, Blabops, and server While, Inclose.

BEGITIMATE MINING.—PRELIMINARY NOTICE.

MR. NICHOLAS ENNOR has for the last ten years in vain attempted to base inining on something like geautine grounds, but has been foiled in his endeavours by action who earn their living by bringing out mined indifferent hotel. Intrinsic as much as possible of the spheriched capital to their outside, or the control of the spheriched capital to their outside, or the control of the spheriched capital to their outside, or the observation of ecocomy in carrying them out, their object being to appropriate as much as possible of the spheriched capital to their outside, or the observation of ecocomy in carrying them out, their object being to appropriate as much as possible of the spheriched capital to their outside, or the spheriched capital to their outside, or the spheriched capital to their outside, or the spheriched capital to their outside the spheriched capital to their outside, or the spheriched capital to their outside, or the spheriched capital to the spheriched capital to the spheriched capital to the spheriched capital to their outside the spheriched capital to the spheriched

I might annex hereunto a legion of favourable reports, from both practical and professional men, but consider my own observations and the quantity of ore that has been returned, with the substantial remarks contained in Capt. Hosking's report, and in that of an old tributor, sufficient.

•a• Notwithstanding the short time this mine has been before the public, the greater part of the shares are applied for; but before the allotment is made, bankers will be named to receive the deposits. I have been asked by one or two why I have not named. a committee and secretary; my reason is, I am desirous the committee should be se-lected from *bona fide* shareholders. In choosing a secretary, I shall endeavour to fix on a pains-taking business man. I avoided in the first instance to foist upon the public a committee of high-sounding names, which is too often attempted. I, as a miner, determined to offer this mine to the public individually, and from the number of applications for shares I have received in so short a time, I cannot but fee ud of the confidence reposed in me. NICHOLAS ENNOR

## RIVER TAMAR COPPER MINING COMPANY (LIMITED). Capital £10,000, in 10,000 shares of £1 each.—Denosit 5s. per chare. Capital £10,000, in 10,000 shares of £1 each.—Deposit 5s. per share With power to increase. Calls not to exceed 5s., at intervals of not less than six months.

OFFICES,-10A, KING'S ARMS YARD, MOORGATE STREET.

OFFICES,—10A, KING'S ARMS YARD, MOORGATE STREET.

The River Tamar Copper Mining Company has purchased the sett hitherto known as the South Devon Great Consols Mine, under which appellation it has been procedured for upwards of four years last past, with the greatest vigour and judgment. The mine is situate in a stratum of granite and killas, the former being exactly similar to the granite which yielded such great results at Gunnis Lake; and the laster being in every respect like that which has yielded such uprecedented returns at the Great Devon. The presence and junction of these two formations are highly favourable to good deposits of copper, and the mine is traversed by cross-courses, which appear to be necessary to the development of profitable copper mines. The character of the lode at the shaft is wider than the general run of granite lodes, which is also a promising feature, and it runs nearly vertical, which is also a further advantage. Gossan is found in the lode as low as the 38, agod indication of a deep and profitable mine; and, lastly, the kind of copper ore which is found in this lode is of the highest possible quality, so that the smallest quantities would be remunerative. In these peculiarities, every known circumstance which tends to great success exists, and at the present time a discovery of a remunerative deposit may be made at any moment.

Applications for shares, according to the schloland form, accompanied by the

noment.
Applications for shares, according to the subjoined form, accompanies eccipt of the bankers of the company for a deposit of Ss. per share on the minares applied for, may be made at the offices of the company, and all apply former adventurers in the South Devon Great Consols Mining Company to

FORM OF APPLICATION FOR SHARES. To the Directors of the River Tamar Copper Mining Company (Limited).
Offices, 10 a, King's Arms-yard, Moorgate-street.

Comes, 10 a, king's Arms-yard, Moorgate-street.

Gentlemen,—I request you to allot me shares, of £l each, in this company; and I hereby agree to accept the same, or any less number which you may allot me, and to execute the Articles of Association of the company when required; and on failure so to do, I consent to forfeit the deposit of 5s. per share now made with the bankers of the company.

Dated this day of , 1857. Residence.

(State if an adventurer in the South Devon Great Consols Mining Company, and the numbers of the scrip certificate held.)

INVESTMENTS IN BRITISH MINES.
Full particulars of the most important Dividend and Progressive Mines will be found in the Fourth Edition of

RITISH MINES CONSIDERED AS AN INVESTMENT,
Recently published, by J. H. Murganson, Esq., F.G.S., F.S.S.,
Pp. 356; price 3s. 6d., by post 4s.

Mr. Murchison also publishes a Quarterly Review Of BRITISH MINING, giving, at the same time, the Position and Prospects of the Mines at the end of each Quarter, the Dividends Paid, &c. The Review for the Quarter ending the 30th of Jane, contains a Map of the Great Wheal Vor and Lelant Mining Districts, price is, Reliable information and advice will at any time be given by Mr. Muzonsow, either personally or by letter, at his offices, 117, Bishopsate-street Within, London, where copies of the above publications can be obtained.

## OPINIONS OF THE PRESS

Mr. Murchison's new work on British Mines is attracting a great deal of attention, and is considered a very useful publication, and calculated to considerably improve the position of home mine investments.—Mining Journal.

The book will be found extremely valuable.—Observer.

A valuable little book.—Globe.

A valuable guide to investment when the important subject of his book, and has placed, for a small sum, within the reach of all persons contemplating making investments in mining shares that information which should prevent rash speculation and unproductive outlay of capital in mines.—Morning Herald.

Of special interest to persons having capital employed, or who may be desirous of investing in mines.—Morning Chronicle.

Of great value to capitalists.—Sunderland Times.

Parties requiring information on mining investments will find no better and safer instructor than Mr. Murchison.—Leeds Times.

As a guide for the investment of capital in mining operations is inestimable. One of the most valuable emining publications which has come under our notice, and contains more information than any other on the subject of which ittreats.—Derby Telegraph.

To those who wish to invest capital in British mines, this work is of the first impertance.—Welshman.

This work enables the capitalist to invest on sound principles; it is, is truth, an excellent guide.—Plymouth Journal.

All who have invested, or intend to invest, in mines, will do well to consult this very useful work.—Ipswich Express.

This is really a practical work for the capitalist.—Stockport Advertiser.

Persons desirous to invest their capital in mining speculations, will find this work

All who have invested, or intend to invest, in mines, will do well to consult this very useful work.—Ipswich Express.
This is really a practical work for the capitalist.—Stockport Advertiser.
Persons desirous to invest their capital in mining speculations, will find this work a very useful guide.—Warwick Advertiser.

It is full of carefully compiled and reliable information relative to all the known mines in the United Kingdom.—Sheffield Free Press.
Those interested in mining affairs, or who are desirous of becoming speculators, should obtain and carefully peruse the work.—Mommouth Beacon.
Every person connected, or who thinks of connecting himself with mining speculations, should possess himself of this book.—North Wales Chronicle.
A very valuable book.—Cornwall Gazette.
Giasgow Examiner.
All who have invested, or intend to invest, in mines, should peruse this able work. We believe a more useful publication, or one more to be depended on, cannot be found.—Plymouth Herald.

Mr. Morchison will be a safe and trustworthy guide, so far as British mines are concerned.—Bath Express.
Is deserving the attention of every one who seeks profitable investment of his capital.—Brighton Examiner.

With such a work in print, it would be gross neglect in an investor not to consult it before laying out his capital.—Poole Herald.

To capitalists the work will prove very serviceable.—Birmingham Mercury. J.

To expitalists the work will prove very serviceable.—Birmingham Mercury.

O YOU LOCK UP YOUR CASH AND BOOKS?

If not, lose no time in getting one of GRIFFITHS SECOND-HAND FIRE
and THIEF-PROOF SAFES, for bankers, shippers, merchante, or public companies,
by the most eminent makers, at half the cost of new. WROUGHT-IRON DOOKS
for strong rooms and party walls. Frice of safes, 24 in. height, 18 in. width, and
for in. depth, £3 10s. All sectes from this establishment warranted to be fire-resisting,

rfeet, and quite equal to new. C. H. GRIFFITHS, 191, Whitechapel-road, near Mile End-gate, E. N.B. Fire-proof Safes, Iron Doors, or Office Furniture bought.

GOTON MORRE, SIGNAL COMD, LIGHTWING COMDUCTORS, SE.

CORNISH MINE PHOTOGRAPHS-No. XV. "ST. JUST FRAST."

"It is a faint heart that never rejoices," is the cheering apothegm to many a saddened, depressed spirit, when resuming its wonted elasticity, after severe affliction, inducing that return of self-confidence so desirable and laudable in adversity. This exciting phrase has kindled many an ardent spirit into vigorous exertion, after extreme despendency. We do not, however, now intend to apply it in these its highest attributes, but as the watch-word and palliative for the exuberant glee, riotous festivity, and (for them) lavish expenditure indulged in on the ancient annual festi.

and (for them) lavish expenditure indulged in on the ancient annual festival forming the subject of our paper.

Owing to the great number of mines at work in its immediate proximity, many of which are genarkably productive, this once small, and then seeluded, village has so increased during the last 20 years that it rivals many of the older country towns in population and appearance, the old and handsome shurch and high cross forming prominent objects; its very large and stately Wesleyan chapte surprises a stranger by its proportions, axciting a wonder where a population can be found to fill nuch a taber, nacle, in addition to those passed in every hamlet on the wayside.

St. Just is the only villagiof any pretensions west-of Penzance; it is, par excellence, the mining parish of the West, being full of mines, and conferring, for this reason, a name to the whole district; the people are generally miners; the land, from its proximity to the sea, and consisting principally of hilly, wild, rocky, blesk, common and moorlands, afford but small employment for agricultural labourers. Not a tree is to be seen, we believe that there are not a dozen in the parish; there were a few at Nancherrow, but we think even those are gone. If agriculturists be in the parish, they soon become imbued with miners' independent habits and associations, and go underground, if the miners will allow them. A regular miner plumes himself as being far superior to a labourer—as indeed he ought, seeing he excutes as much work as two or three of them. The wages paid for mine labour in St. Just, until lately, were lower than in any other part of Cornwall, and the men not so well treated: emigration and oppression have their done work, and remedied this. Now St. Just chief as they are called, are to be found every where; and a hardy race they are—born on a wild common, inured to hardship and toil from a nearly age (at 10 years old boys and girls are sent to mine), and when they arrive at manhood are remarkable for activity and strength. The period

do—but we won't say what: that is, or should be, their look out, not ours. Everybody knows there must be "moonahine" at St. Just—aye, and Buryan, too—for feast. Even if a cortain old gentleman stood at the door and ran the risk of being put into a Cornish pie, t "moonahine" must be had for St. Just Feast, it always was so, and always will be so to the end of time. We have tasted it, and will taste it again if we have the chance, were it only to keep the old custom up. It is the practice from Trewellard to Chapel Carn Bray, and from Cape Cornwall to Newbridge; it has been so from the days of St. Just himself, who, doubtless, like the Coast Guard, winked at its introduction, and smacked their lips at its taste, each being wise enough in their generation to "ask no questions." Haf Father Matthew himself been there on feast-day, we verily believe he would have taken the ceacethes bisensi, and have "sworn there was nothing like grog." It is necessary to give this long prelude, that the lights and shadows of our picture may be more planily developed. The habits of these poor people being, of necessity, very economical, their lavish expenditure renders the contrast more striking, and the zest with which they enjoy their featival the more keen. To many, who fare luxuriously every day, it may appear trifling and silly; to them it is a high day—indeed, the highest in the calender, all parish goas; taking its date from its golden the lights of the strike of t

<sup>\*</sup> Smuggled brandy and hollands.

† It is said the devil never comes into Cornwall, for fear of being served as every-ning cless is in that county.

† Trifling luxuries.

in the wireld, with their emmy akine or golden mode, and display; not one of the an execution to an English willing Studys morring on such constitutions for the constant to the congregation), they retire to be satisfied under your poundation of the constant to the congregation, they retire to be satisfied under your poundation of the constant to the congregation, they retire to be satisfied under your poundation of the constant to the congregation, they retire to be satisfied under your poundation of the constant to the congregation, they retire your of the constant to the congregation, they retire your poundation of the congregation of t

s of hese

mas,

be had time

een so

d have

g like ts and bits of

golden

eir tiny

frugal regular o "old e water eir sav-

ives, in

which

The

n every the en

houses, warming er of the hurry to The bar till it is a er: this, il ten or ossing is some sort sonveyed g. Few

g. Few he game; ooking is garment ight, and en in tat-ontented,

as every-

## Original Correspondence.

MINING IN 1665.

MINING IN 1665.

Sin,—In turning over the first volume of the Philosophical Transactions, I found in a number of queries propounded by the celebrated Robert Boyle, which may interest such of your readers as are curious shout the ancient history of mining. He reduces his quories into aix heads, and I think it would puzzle enyone at the present day to suggest a better mode of investigation:—I, the neighbouring country about the mines; 2, the soil where the mines are; 3, the signs of mines; 4, the structure and other particulars about the mines themselves; 5, the nature and circumstances of the cre; if, the reduction of the ore into metal. To give his queries in full would cocapy too much space, but some of them are exceedingly segacious—others not a little amusing.

Under the first head, he asks whether the country be flutfull.—whether the cattle have a supported to each other !—whether the country be flutfull.—whether the cattle with all peculiar!—whother the natives are subject to any opidemical disease, and with—whether it be clayed, marile, obtained.—"Whether the sorpet him is may may parallel to each of the air and water?

Under the conditions of the air and water?

Under the third head, he asks the two very pertient questions—"By what signs they know or guess that there is a mine in such a place!" and "Are the signs upon the surface of the earth or beneath it?" Under these two subdivisions, in a multitude of questions, he asks.—What are the effects of the presence of minerals upon the ground and rece—whether they change and discolour white time cloth spread over might on and resea—whether they change and discolour white time cloth spread over might on and resea—whether they change and discolour white time cloth spread over mining district. He also asks, "Whether the signs upon the ground and resea—whether they change and discolour white time cloth spread over mining district. He also asks, "Whether the signs of the presence of minerals upon the ground and resea—whether they change and discolour him time clo

will known in men of Robert Boyle, and are besides interesting, as showing the state in many points of mining in those days.—Sopt. 14.

AUDIT DEFINED AND EXPLAINED.

Sin,—Since reading your valuable Journal of last week, I have carefully perused the pamphlet bearing the above title, and am now convinced that your remark, that although the scheme was beautiful in theory, it was incapable of being put into practice, was not without foundation. The pamphlet having been issued anonymously, I have, of course, no personal feeling against, or in favour of, the writer, and am, therefore, perfectly independent in my observations. In many of his statements, I regret to be compelled to admit, the author a but too correct, and I am astisfied that the greater part of the microtunes of joint-stock, and indeed of all public companies of a company place implicit confidence in their directors, the directors in the sceretary; the secretary in his clerks; and the consequence is, that so little is known by any in office of the exact position of the company's affairs that, when the crisis comes, all are at a loss to prove with whom the blame rests.

It is not, then, stating too much, when he asserts that neither antecedent integrity, the secretary in his clerks; and the consequences are so recent, that the demonstration of that truth is painfully scany of access; therefore, the question is—How are set to overcome obtateles which parliamentary on activations, and the consequence are so recent, that the demonstration of that truth is painfully scany of access; therefore, the question is—How are set to overcome obtateles which parliamentary on activates the consequence are so recent, that the demonstration of that truth is painfully scany of access; therefore, the question is—How are set to overcome obtateles which parliamentary on activates the proper described by an invaluable feature, which we seek cleawhere in vain; they are eminently preventive, because by efficient audit the principles of such as the contract of the principles o

the company are paid, or will be paid, that mothing has been improperly share, we that all monitory transactions are correctly recorded, but this is awaily threat that all monitory transactions are correctly proceed, but this is a waily threat as at present. He are the paid of the

As to the quality of the work, it is to be remembered that it is often a nice point to determine a question of novelty. It is not enough to produce a specification, and say, "Here is a description of the invention similar to that now described." the question is, does the prior document not only describe, but ascertain (define, make certain) the same scientific proposition applicable to a manufacture that the subsequent document does! Nothing short of this is an anticipation of an invention in Patent Law. In the American system, the decision of the ordinary examiners is subject to appeal to a higher class of examiners, and something of this kind is necessary, in order to make the system at all endurable; but this appeal opens the door to a great increase of labour for the examiners, because it lets in the objections of patent agents on behalf of their clients, and they are entitled to be heard when they urge reasonable objections. I remember a case even within my own small experience, in which it appeared to me that the alleged grounds of the decision against my client's application were utterly unfounded. I advised accordingly, and on appeal the decision was reversed; but all this occupied much time, to say nothing of extra expense is agency. I have no doubt those who have had much experience in this kind of business could tell you of many instances of great innouvenience, both to thesaselves and helr elients, in the unlocked-for expense incurred, and in the amorying delay occasioned.

Now, I think your ordinary readers will be able to see clearly the distinction between the American system and my proposed plan, which is not to examine every specification, but only those in dispute, and not to raise objections to their novelty, but only to deal with the objections raised by adverse parties. It is well known that, out to trial, so that the working machinery required to perform the labour of examination, such as I propose, would be on a very different seals from that required to work out the American system. And

### EXTRACTION OF SULPHUR FROM PYRITES.

opinion adverse to the American system, and yet advocating my proposed plan. Office for Patents, 80, Chancery-leane, 1894. 11.

EXTRACTION OF SULPHUR FROM PYRITES.

Sia,—In my short comment on Mr. F. S. Thomas's elaborate disquisition, I purposely suppressed names. He fails to reciprocate the courtesy: no matter, let that pass. He disclaims, however, having alluded to my system in particular. Will he honestly say to whose system he did refer, for no concealment could be necessary here? But from some shortly previous passages between us, relating to his proffered suggestions for an improvement of my specification, on the terms of a moiety of the patent being assigned to him (further particulars whereof I care not now to disclose, but would just remind him that "letters live"), I believed myself, and others have told me, the exposition, moreover, carries its own evidence, that my patent was specially amed at, and as manifestly with a view to demonstrate that extracting sulphur from pyrites by alkaline solution was not novel, and that thus my patent within the conferred no privilege at all. The object of difference between his scheme and mimethe inefficiency of an application of heat to the admixture of pulverised matrix and solvent metal in a dry state—has been clearly intimated, he does not even attempt to grapple with it. Now, I defy him, or any one (and I stake on this my credit as a sieverless practitioner is an olivents for 30 years), to show that sulphur can remain to be absorbed in any quantity by lime in a liquid solution, after exposure of those ingredients, commixed with other matter, to incandescence, the lime being unslacked. By such a process the sulphur must be decomposed from the matrix and evaporased, and with it all volatile metallic particles, so largely as to loave the mineral demoded of both, for any chance of benefit from a residuum or deposit of metal enduded of both, for any chance of benefit from a residuum or deposit of metal enduded of both, for any chance of benefit from a residuum or d

## THE IMPERIAL BRAZILIAN MINING ASSOCIATION.

g was held at the offices, Winch

d Broad-street, on Thursday,—Capt. Luccarum Vannow in the chair.

The Chulmhar read the notice convening the meeting, and observed that the proedings had been adjourned from time to time, for the purpose of enable the directors
bring into shape a certain proposition for the purpose of the property. The directors
read committee appointed to act with them had given the best consideration to
e subject, and not left a stose unturned to obtain the highest possible amount
ey had now gones of are as to accept conditionally the best offer they could get,
ing of opinion they were not likely to obtain more favourable ternas. The first
offered was 10,000., that was afterwards increased to 20,500., and since then
upshot offer was 33,000.; and, although some of their friends considered they
light have done better, they had obtained an offer for more than triple the amount
udered in the first instance. They had now met for the purpose of giving the protetors an opportunity of confirming the resolution passed april 3, for shoultely
miding-up the company. He (the Chairman) concluded by moving a resolution to
at effect.

Mr. Schourseld seconded the resolution, which was unanimously carried.
Mr. First wished to know about what time they might expect to reap the fruitse to resolution?

The CRAIDMAN said, 1000l. was paid down as a deposit, and, as the resolution was nonfused, 31,000l. would be paid in Brazilian bills at 60 days' sight, upon a power of ittoring being sent out to absolutely transfer to the purchaser the whole property. Mr. Schonzuka considered the proceeds would be divisible in three or four months, and he calculated it would amount to 3l. per share, after paying all liabilities.

The CRAIDMAN, in answer to a question, stated that they had used part of the reserve fund in preference to making a call.

A vote of thanks to the Chairman terminated the proceedings.

#### WHEAL EDWARD MINING COMPANY.

peral meeting of adventurers was held at the offices of the company, Aust Thursday, Mr. T. C. MUNDEY in the chair.

Mr. Edwo. Kino (the secretary) read the notice convening the meeting, and the almutes of the last, which were confirmed.

A statement of accounts, ending with July cost, was submitted, from which the abjoined is condensed:—

Copper ore sold			£3740	18	8
Balance last audit	£530	16	9 .		
Mine cost, May	626	1	8		
June	629	8	0		
July	737	12	1		
Discount	18	2	9 = 2542	1	8
				_	-

Balance in favour of adventurers .. £198 17 5

to expediate the work, as when it is complote it will be of great benefit to the concern for carrying on future operations, as well as laying open a considerable quantity of ore ground.

Sourse Long.—The engine-shaft is now down about 13 fathoms below the 50, which is about 9 feet below the depth required for a cross-cut to the north lode. The last 11 fathoms have been sunk on the course of the lode, and which have never failed to present favourable indications. About 3½ fathoms below the perpendicular we first cut through it, and found the lode from 5 to 6 feet wide, with a small leader of ore on the foot-wall, sufficient to induce as to carry down the lode in sinking, and which we have found to gradually increase is size and raise, even from that point to the bottom of the shaft. The lode for about the last 2½ fathoms sinking has torned out fally 40 ton of good firm yellow copper ore, and in the bottom of the shaft if may be fairly rated at 30 ions per fathom for the length of the shaft.—12 feet; value about 1801, per fathom, and strongly indicates greater value in depth. The 39 east is extended to the point required for a rise against the trial shaft for the purpose of ventilation, and from what 1 can find we have about 6 or 7 fathoms to rise to complete the communication. This is the first thing required; and, secondly, a winse put through from the 40 to the 30, as after this work is done-we shall be in a position to resume operations at any other point which may be considered of snoet importance.

Having endeavoured to point out by the former statement what has been done, and what is now in progress. I should remark that the operations in addition, which will be carried on on the south lode, will be the driving of two ends in the 61; we shall drive about 6 feat-less and west of the shaft before we commence casing and dividing it down; after which a trip-plat must be cut, and preparations made for sinking. I calculate it will occupy about eight weeks to get this point in full operation—4.e., the sinking of

the advantage of the adit level it is of ample power to drain this mine at least 100 fms. below the present depth.

In conclusion, I has to remark that the present position of this property is solely and simply the result of having given it a spirited trial, which is the only sure step to be taken in such matters; therefore, having been ancessful of late. I think it behoves you all now, as having a property of great promise, to support the thing which is most essential, by continuing to follow the principles of spirited working, and endeavour to make further of the properties of the spirited working, and endeavour to make further of the properties of 500 fathous in length. Of course you are aware that a very greal more might be said respecting this, but as I deem it hardly necessary on the present occasion to make a long comment, suffice it to say, that at no former period has this mine presented such a proriment feature as at present, as it can be seen by my reports from time to time that the most favourable changes that have taken place are at deepest points. The mine is well situated, the sett is of immense magnitude, and the probabilities are most decidedly in favour of having a good and leasting mine.

The CRAIRMAN said Capt. East was in attendance, and would answer any question

nost elementy in savonr of naving a good and natum mine.

The Chairman said Capt. East was in attendance, and would answer any question hat might be put to him. He was glad to see Mr. Rosewarne present; and, as he was a practical goniteman, he should be glad to hear any enquiries made by him. Mr. Rosewarne said, Capt. East had always great hopes of the south lode, and he elieved if his suggestions had been followed they would have been in a dividendaying state long before this. He believed a better course of ore had never been en. There was also an excellent course of ore had never been en. There was also an excellent course of ore on the north lode, and he believed beyond a good and lasting mine.

I. There was also an excellent course of one on the bound of the year of year of year of the mine. It. Powert (Powell and Cooke) said he should like to know Capt. East's opinion he north lode.

In Powert (Powell and Cooke) said he should like to know Capt. East's opinion he north lode.

In the points were worthy of consideration. He considered they had a mine of at importance. In the 64 they had good ground; they had also a good lode in the was, and in the winze sinking at the last meeting the lode was worth 301, per fan. It. Powert, wished to know it there was any doubt of the lode holding down.

In the wind of the lode holding down.

In the wind of the lode holding down.

Mr. Powrat, observed that Mr. Rosewarns was of the same opinion as Capt. East, that they would obtain their greatest riches in depth.

Capt. East, in answer to a shareholder, did not consider the reserves were diminished. As regarded the south lode, it would be unwise to estimate the reserves at

the present time.

Mr. Roszwanyz considered the discoveries in Wheal Edward the greatest of the present day.

present day.

Mr. Powall said he was underground last week, and was astonished and delighted; in his experience in mining he never saw anything equal to the course of ore in the south shaft, and the north lode was likely to become richer in depth.

Mr. Perra Warson was also of opinion that the north lode would be productive in depth. He considered the conduct of Capt. East highly creditable, and that he ought to have more agains.

Mr. Perris Warson was also to specific the considered the conduct of Capt. East highly creditable, and that he outgot to have more salary.

Mr. Warson enquired when they expected to reach the cross-course in the 41 west? Capt. East estimated that they had about 2 or 3 fms. to drive, and it was considered a very important point.

The report and accounts were then unanimously adopted.

The Chalman's said, the committee had taken into consideration the salary of Capt. East, which it was proposed to increase to 101, 10s. per month. He perfectly agreed with Mr. Watson that the works were carried on in the most satisfactory manner.

Mr. Perris Warson said he had much pleasure in proposing that Capt. East's salary be increased to 104, 10s. per month. He was much gratified with the way he had conducted the operations; they had a splended course of ore in the shaft, and Capt. Nassarrow, who inspected it, agreed with him that it was one of the finest raines in the two counties.

Name to we consider two continuous agreed with the remarks made by Mr. Watson. In his experience, he did not know as agent more ready to give an explanation than Capt. East. A resolution was then unanimously passed, increasing Captain East's salary to 101. 10s. per month. The committee of management were re-elected, and a vote of thanks passed to the Chairman.

Mr. Roszwakiw sife they must not forget their secretary, and he should propose

a vote of thanks to Mr. King for the able manner in which he had conducted their proceedings.—Mr. Canzas econded the recolution, which was carried unanimously. Mr. Kirse, in answer to a question, said the negociations with Wheal Arthur had not been finally settled. The matter had been referred to Capt. Pope and Mr. Henderson, and he believed within the last three or four days the agreement had been exceuted.—A rote of thanks to the Chairman terminated the proceedings.

#### GREAT WHEAL VOR UNITED MINING COMPANY.

e quarterly meeting of proprietors was held at the offices of the company, Grese, on Wednesday,—Mr. E. Vansittant Neals in the chair.

The quarterly meeting of proprietors was held at the offices of the company, Oresham Hosse, on Wedneeday,—Mr. E. Vashettarar Reals in the chair.

Mr. Alsow (the secretary) read the notice conveaing the meeting, and the following report of the committee:—

The committee have to report a progress in the drainage of the old mine less rapid than they had hoped, aithough uninterrupted by any special exists of delay beyond than they had hoped, aithough uninterrupted by any special exists of delay beyond than they had hoped, aithough uninterrupted by any special exists of delay beyond they are the

A statement of accounts, which appeared in the Mining Journal of Seaken as read.

Mr. H. P. P. Chease (the manager) then read his report, as follows:— A statement of accounts, which appeared in the Mining Journal of Sept. 12, was taken as read.

Mr. H. P. Caraas (the manager) then read his report, as follows:—

Sept. 11.—The following events have taken place during the last quarter in these mines:—The plan adopted at first for the effectual drainage of the deep works and exploration of the different lodes has been actively carried out, with such variations only as were the natural consequence of the varying incidents of so large an undertaking. The surface drainage and leading roads have been kept in good repair, and extended as necessity required. The pumping and winding-engines have been working well, the stamps only requiring any repairs of importance. The surface works are in a state bordering on completion. The steam-stamps engine and appendages have been doing good work, but have required some considerable repairs, and some alterations on the south side and the cylinder, with the completion of the work now on hand on the tin dressing-floors, with a new calciner and flare, will set the whole in good working order for returning a very large quantity of tin. We have raised and sold 155 tons 14 ewis. 2 qrs. 23 bs. of tin in the last three months, which produced 11,0281. 12s. 3d. The querrenty returns would have been much greater but for the temporary falling off of the tin in the lode at Wheal Metal, and tind some of the stopes, arising, it is believed, from the course of tin having taken for a while a westerly dip, and from some of those passing variations in the stopes which we have more than once already experienced at Wheal Metal, followed after an interval by a return to the higher value. The drop or difference in the price of tin, the inability to operate on the more valuable tin ground in that portion of the main lode already drained, owing to the necessity of previously removing a wat quantity of rubbish and old timber at Trelawny's, Crease's, and Bounder shafts, and bringing down the skip rails—in the latter sufficiently deep for the discharge of t of ground to isseen the unsertie, nor the coarse and on the plant as on good loof in the king at the last meeting the lode was worth 30. per fam. It was any doubt of the lode, holding down.

of the main rod at the share, and to place carriage and wheels at the angle for the plant was any doubt of the lode holding down.

of the main rod at the share, and to place carriage and wheels at the angle for carrying the same; also that a place of the plant of the lode holding down.

Of the lode holding down.

Aft. Rosewarne was of the same opinion as Capt. East, greatest riches in depth.

It is a shareholder, did not consider the reserves were dimitiable, it would be unwise to estimate the reserves at the discoveries in Wheal Edward the greatest of the discoveries in Wheal Edward the greatest of the merground last week, and was astonished and delighted; he never saw anything equal to the course of ore in the development of the discoveries in the same plant of the course of the indepth of the process of the course of the indepth of the process of the course of the lode, in east circumstances should require it. At Treiswny's shalt, a great quantity of ground had to be cut, and strong timber fixed to secure the state of the lode, in case circumstances should require it. At Treiswny's shalt, a great quantity of ground had to be cut, and strong timber fixed to secure the state of the lode, in case circumstances should require it. At Treiswny's shalt, a great quantity of ground had to be cut, and strong timber fixed to secure the state of the lode, in case circumstances should require it. At Treiswny's shalt, a great quantity of ground had to be cut, and strong timber fixed to eccure the state of the lode, in case circumstances should require it. At Treiswny's shalt, a great quantity of ground had to be cut, and strong timber fixed to the lode, in case circumstances should require it. At Treiswny's shalt, a great quantity of ground had to be cut, and strong timber for the course of the lode, in case circumstances should requi

the side of the lovel east of Date's orose-out, to prepare for sinking the wines, we'll covered a part of the lode lying still further south, on which we are now extending priving larger extracts when semilately laid open. In a Farrigish from this the son will be sufficiently on to admit of the wines being sunds. This point is the son will be sufficiently on to admit of the wines being sunds. This point is the son will be interested at the most available points by short erose-cuts. In the 16st, east and west of filtrester's erose-cut, on the north part of the lode, good (Pothus ground) and the son will be interested at the most available points by short erose-cuts. In the 16st, east of the lode, and driven, and the son will be sone that the sone of the lode, and driven, and the sone of the lode, and driven eastwarf, the twel open fair thritted ground.

Tankawards Staart.—The 10st is a stended sone and stopy are from the bact of the lovel open fair thritted ground.

Tankawards Staart.—The 10st is a stended sone and stopy are from the bact of the lovel to the 17st is good tribute grounds, and when such part of the lovel to the 17st is good tribute grounds, and when the sone of the lovel to the 17st is good tribute grounds, and the lovel to the 17st is good tribute grounds, and the lovel to the 17st is good tribute grounds, and the lovel to the 17st is good tribute grounds, and the lovel to the 17st is good tribute grounds, and the lovel to the 17st is good tribute grounds, and the lovel to the lovel to

our wishes is now almost within our grasp.

Mr. Cole. Cole enquired whether the accounts of liabilities estimated for the next
three months included merobants' bills, and whether Mesars. Harvey and Co. did not
principally supply the mine?

Mr. Goddens and two-thirds of the amount for merobants' bills was paid to the
Mesars. Harvey
Mr. Carass said Harvey and Co. had come forward and assisted the adventure in
time of great need, aubscribing large sums of money, and taking payment for their
goods in shares. On one occasion they engaged for as much as 25,000%, and he (Mr.
Creace) therefore considered they were suittled to the preference, if they could be
supplied by them as cheaply as by other parties.

Erease) Interester considered tay were entitled to an preservance, if they could be supplied by them as cheaply as by other parties.

The Charaman observed that it was well understood that the preference was only given to Mears. Harvey upon the terms mentioned by Mr. Crease.

The report and accounts were then unanimously adopted.

The Charaman next proposed a resolution, that cell of 12s. 6d. per share be made:

7s. 6d. payable in Oct. and 5s. in Nov.

Mr. Couc Cour and there was only a small number of shares in arrear of call, but he considered they ought to be forfeited.

Mr. Stroogus believed some of them were not registered, and they had better be annihilated.

Rosessful eyelora troduc music of Eng

The Su habitus

he considered they ought to be forfeited.

Mr. Stroops: believed some of them were not registered, and they had better be annihilated.

Mr. Atlanor said the total number upon which the call was due was 179, and out of them 31 were unregistered.

Mr. COLE COLE observed that if arrears, however small, were tolerated, it might exclusely inconvenience the company, as other parties might fancy they also could enespe payment of the call now proposed.

This, it was settled, should be instantly attended to.

The CRAINMAN string put the resolution for the call,

Mr. STOODEN said he was sorry to propose an amendment, but he represented a very large number of characholders, and, according to the accounts, they had acceptance out for about 11,000. They must all be of opinion that purchases could always be made upon more favourable terms for cases. If considered they ought to make call of 11, per share, payable by two instainments of 10s. such, and he outd see his was the feeling of the meeting.

The CHARINAN replied that the committee did not require more than 12s. 6d. toerable them to carry on the mine for the next three months, and to ask for more would; in his splinion, be to take money needlessly out of the pockets of the shareholders months, and the subsequently incurred cost for materials would be similarly me! By did not believe that they would gain anything by running about to various suppliers. Mesers. Harvey have supplied the whole of the machinery, which was of the very best description—a remark applicable generally to the materials furnished by them; and they had supplied them at fair prices. It was true that a very large sum had been at they had supplied them at fair prices. It was true that a very large sum had been at the prices of the supplied them at fair prices.

expended, but this arose from the magnitude of the works, and the substantial manner in which they had been exceeded, in which the adventurers would find a true economy hereafter. With regard to the prospects of the mine, they were never more satisfactory. The statements made as to the tin to be found at the different levels had in every case been confirmed as these were drained, and this was the true ground for confidence in the future. At Wheal Motal, there was every reason to consider the falling off of the look temporary only, and he had no doubt it would shortly become as rich as ever.

Mr., Prognes, withdrew his amendment, and the call of 12s. 6d. was carried.
MR. Noazas said it was only justice to Mossrs. Harvey to state that they had repeatedly informed the board that if the company sould be served cheaper and better, to withdraw the orders from them.

Mr. Colar Colar suggested that in future the meetings should be held at 1 o'clock instead of 2, as many of the shareholders came from Exeter, and were anxious to return the same day.

. 2 in.

In the brough In the ourse of the level w about ground,

e to yield tiveness. d is now f tin, and has been brough: nking of

eross-cut et part of at end the fms. 5 ft.

e, in order rould have the for that the present to levels in orth in the and is now the lode.

in. x penditure ltimate ob-goal of all

paid to the

se was only re be made : of call, but d better he 9, and out of it might se-

opresented s y had accept-could always that to make a ould see this

12s. 6d. toen-r more would, shareholders, of the three larly met. He lous suppliers, f the very heat by them; and sum had been

cad of s, see asset yet.

The CHAINANA assured the meeting that in future they should be held at 12 o'clock. The committee and auditors were then re-elected, and the proceedings terminated rith a rote of thanks to the Chairman, directors, and manager.

## MINING NOTABILIA.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

URANIUM.—Pitch blende (oxide of uranium) has again been found, in an east and west copper lode, at Treemoor, in the parish of Withlel. Though it may not be of any commercial value, from the small quantities procurable, still its existence should be nevertheless noticed in a publication of so scientifice a purports at he Hissing Journal. Several fine stones of this mineral were found in a neighbouring north and south fron lode, a short time since, which were worth 7s, per lb. It is much valued for porcelain and china painting. A demand exists for it, if any one can procure it.

REID AND O'NEIL'S PATENT POR THE EXTRACTION OF COPPER FROM ITS ORES.—The experiments on the copper cres of the Ashburton district under this patent will be resumed shortly on a large and more comprehensive scale, under the superintendence of Mr. A. Reid, one of the patentses.

Mr. Bakers, assayer and mineralogist, who was sent by the London and Vindinia Gold and Copper and mineralogist, who was sent by the London and the went only with interactions to assay every part of the mine was, at the last advices, building a small laboratory, which was about fluished, and had erected a buddle. He went only with the complex of the sent of the mine factor of the copper are such that the opinion prevails that it will prove valuable for a copper maine. Some parcels of copper one, which have been sunt to this ecountry from the mine, have been worth 33i, per ton. Mr. Cleman, one of the new directors, has great confidence that the mine to a valuable property, from the sissand nature of the lodes, which have been found to correspond with the reports. Mr. Baker's report may be expected some time next mouth.

WHHAL ZION MINING COMPANY.—Mr. Stockwell, of Broad-street, has summoned Lord Charles Clinton, one of the largest shareholders, and Mr. Aifred Jeffree, the secretary, for certain malpractices with regard to the shares. The prosecution has been instituted at the instance of Mr. T. W. Stubbs, likewis

may be worth much more. The clay-slate in which the lode is embedded is as good as any miner can reasonably wish for.—A MINER: Asbburton, Sept. 16.

TAVISTOCK AND ITS NEIGHBOURHOOD.—HINGSTON DOWN MINE, at the next meeting, will again resume making dividends: although Capt. Richards, in his report of Sept. 10, says there was no change of importance, yet the lode in two of the ends—the 75 and 65—is worth 4 tons of good ore per fm. Since that days those ends have improved, and will pay the persevering shareholders.—Wheal Edward (the mine adjoining) I am confident will at the next meeting be placed in the Dividend List; it looks well.—CALFYCE CONSULE is rapidly improving, and will, no doubt, prove a good mine.—DRYON AND CORNWALL UNITED MINES are looking remarkably well, and will at the meeting declare its first dividend; thus showing that perseverance in legitimate mining will always ensure success.—Whall Russill is very much improved, so much so, that their two monthly esamplings will be very near 190 tons of orce, and the shaft will be down to the 75 in October, where the junction of the two lodes meet, when permanent results may be reasonably calculated on. The 62 and east continues to hold good; this being the furthermost end east looks well for the backs as well as in depth. This mine appears in a good position to pay its cost, and follow some of its fortunate enighbours.—Gawron Unitro is looking better.—Taxy Cossols is paying cost; the shaft is sinking below the 80 in beautiful soft killing ground, and I shoold think that the elightest improvement would place it in that wery envisable position of paying a dividend.—At Lany Exernal, I find the shaft is down to the 80, which will soon bring this mine to the notice of mine investors. I think, 81r, you will agree with me that this part of the country will resume its old position, and many prejudices which existed be removed.—As OLD HAMD. Sept. 17.

The agree when me that has part of the country will resume its old position, and many prejudices which existed be removed.—As Old Hand: Sept. 17.

TRERDDOL.—It is reported that these mines, which are the property of the Rev. H. Jones, Mold, Fintshire, are again to be worked under a respectable party. The lodes have from time to time produced copper, of which many tons have been sold, but it is thought that in depth they will turn out to be lead. Such changes are not uncommon in the lead districts, and when strong lodes have copper backs they seldom fail to remunerate the adventurer in depth, if carried out in a miner-like spirit. The Bryn-Arian Mine, which is in the same neighbourhood, was formerly managed by an old and experienced miner—2apt. Trevethan; this lode made copper backs, and produced beautil specimens of copper. On the same lode, 25 fms. from surface, a branch of solid lead, 20 in. wide, was seen, and every one thought well of the concern, for it continued for a long period to return lead monthly to market; but when at about 26 fms. under adit, where the lode at the engine-shaft produced light on of lead per fm., a flat bed of ground, or it may be termed a slide, was intersected, and destroyed the lode. The best available judgment was used in the endeavour to re-find the lode, but from attempts having hitherto been unsuccessful, it is feared the hidden treasure must remain for another generation.

South CLIFFORD UNITED.—The new shaft is now complete to the adit level, about 20 fms. in depth, which has given ventilation, and enabled the driving on the lode to be resumed.

Whitchurch Down Consols.—Some time since I was passing over

on the lode to be resumed.

WHITCHURGH DOWN CONSOLS.—Some time since I was passing over Whitcharch Down, and saw some men working, and belisving at the time they were softening. I was induced to go and see what hey were about, and found them raising stones for a road near by I dissouvered they were upon a lode from 6 to 8 ft. wide, which I at that time noticed in your valuable Journal, since which two parties have been opening upon it at various places; and this morning I have been on the Downs clow hand with the parties have been opening upon it at various places; and this morning I have been on the Downs are sinking a what upon the course of a very promising lode, from 7 to 8 ft. wide, taking its direction about 10° south of east, with a fine gossan back, and occasionally spots of black ore. This lode, there can be no doubt, is a continuation of Choliscott and Crowndale lodes, and I believe at a shallow depth will produce a quantity of ore. The latter mine is now being re-worked by the Devon Great Consols adventurers.—C. WILLIAM: Theristock, Sept. 17.

HUCK WORTHY BRIDGE.—I was over this property on the 10th inst., and underground. The mine is looking splentid. They have driven through 40 fms. of rich copper ore ground, and from the present promising and satisfactory appearances it will prove, without doubt, a lasting and profitable mine.

It will prove, without doubt, a lasting and profitable mine.

The NANTILE VALE SLATE COMPANY.—This company is now in the course of winding-up in the Court of Chancery, and the whole of the property will be submitted for sale, by auction, by Mr. Wm. Dew, at Carnarvon, on Sept. 30. The Ty-mayr Slate and Slab Quarries are situate in the parish of Lianlyfin, near Carnarvon, embracing an area of about 75 sares, having 430 yards on the course of the vein, which exceeds 600 ft. in width. The property is subject to a royalty of 2s. 6d. per ton, with a provise that the same shall not be less than 100! per annum. There is also the privilege of using a tramway over certain fields in the locality, to enable the propietors to deposit the refuse of the quarries on the banks of the Nantile Vale Lake. The lot includes a large amount of machinery necessary for working the property. The sale takes place, with the approbation of the Master of the Rolls, under the usual conditions.

Nonzer Tayer.

NORTH TAYE.—A tin lode has been discovered here extending from the 30 to the 20 fm. levels, and of considerable length, which will materially alter the prospects of this mine. A large quantity of stuff now lies at surface, raised by former workers many years since, which will now be well worth working.

worker smay years since, Minking and Correspondent).—There is nothing surprising in the fact of Californian gold mines having proved unremunerative in the hands of English companies, as the yield is far less than usually supposed. Taking the parcels from Missouri Hill, four from Sebastopol, one from Alfaon's Ranch, one from Houston Hill, sight from Gold Hill, one from Coborne Hill, and one from Alfaon's Ranch, one from Missouri Hill, one from Rose Hill, and one from Coborne Hill, one from Missouri Hill, one from Rose Hill, and one from Seakhan, smounting together to 1228 tons, only 4137 worth of gold was produce, being at the rate of 11 to per ton, or, reskoning for the difference between the English and American ton, would be about 4s. 6d. per English ton. From equally authentic data, and the prorts of those most extrensively engaged in quartz mining operations at Grass valley, the belief is serviced at that, taking all the ledges now being worked to getter may be fairly stated at \$50 (44. 4s.) per ton. A rich mine of copper to the proper some product about four miles from Pittsburg, and between Pitt and Cloud Rivers. The specimens which have been schibited are very rick. Some gold is and to be mixed with the copper ors. From the highland between Circas Valley and Rough to the product of the water used in these claims. The Oregon papers contain been paid for some of the water used in these claims. The Oregon papers contain been paid for some of the water used in these claims. The Oregon papers contain been paid for some of the water used in these claims. The Oregon papers contain the formation on the Colville Mines. It is said that about the mines on the Pan Oregon and Liebon, Mr. George Benchiand, the well-known humorons vocalist, introduces two new entertainments, illustrated with dissolving views and descriptive music and songs: these are—'an Alvantated with dissolving views and

MINING IN IRELAND

[FROM A CORRESPONDENT.] This subject has for some time been in comparative abeyance. The

plendid mineral properties of the sister kingdom are now likely to attract ore cspital and attention than they have hitherto received.

The great fault in Irish mining has been the selfish cupidity with which

The great fault in Irish mining has been the selfish cupidity with which operations have been conducted, both in the mines' first introduction to the public, and in the subsequent workings the same self-aggrandisement has been manifested, True, this does not apply to all, but is acknow-ledged to be the great and general bane. In the case, for instance, to which allusion was made in the Mining Journal of Aug. 29, out of a capital of 20,0004, only 50004, was expended in the mine—a fact which ought, in 'ell fairness to Ireland, to be explained, and which is plainly shown by the plans and sections of the works. A reference to these same authorities also give evidence of a mistaken system of working, by sinking on a lides where no ore is usually found in that district, instead of sinking an engine—shaft from the surfaces to 40 fms. depth, which might have been done at a trifling exposue, the whole of the ground having been worked but about 6 fms., which is all the new ground required to be excavated, a small engine would then have lifted the water to the deep adit level; about 16 fms., and the ground known to be productive laid open at once; instead of which 24 men were employed night and day continually, at an enormous expense—nearly 601, per month—and then ultimately obliged to discontinue, the water being too quick for manual labour. Can such methods be called giving a mine a fair trial? Whilst the mine was a work, as soon as a bunch of ore was discovered, no pains were taken to make the most of it, by under cutting and throwing open ground to work it away on tribute, and in the cheapest possible manner. Nothing would suit the adventurers but at once raising every pennyworth they could reach there and then, without any attempt at prosecuting discovery. Is this fair mining? This is but an example of the way Irish mines have been wrought. Were this practised in Cornwall, many of their dividend mines would occasionally have been ruined. It is true policy to keep a "nest-egg" in reserve; lodes cannot be expected to a perations have been conducted, both in the mines' first introduction to the public, and in the subsequent workings the same self-aggrandisement

MEMS, OF MINES AND MINERS .- No. XVII.

MEMS. OF MINES AND MINERS.—No. XVII.

Capt. James Thomas is one of the oldest, if not the oldest, miner alive in Cornwall. Sixty years ago he was a working miner in Cock's Kitchen (who says mines are not worth seven years' purchase?), and afterwards for 30 years an agent at Dolcoath, with his brother Charles, father of the gentleman who now holds that important mine, as captain. The comrade and intimate friend of Rule, Trevethick, Joseph and Andrew Vivian, he formed one of the school that may be truly called illustrious. One fact is worth a thousand surmises; no foul-mouthed calumnistors dare take these names on their lips; it would be heresy to do so. Capt. Thomas has the rare privilege to witness his three sons (of whom anon), to whom he gave a liberal education, in important situations in Irish mines. It cannot be a matter of surprise, under such tuition as they were likely to receive from father and uncle, that these captains should hold the stations they do, and to which we shall necessarily refer. Captain Thomas, although at a very advanced age, enjoys universal vigour and elasticity of spirits; his natural wit (descending to his sons) renders his conversation, filled as it is with historical anecdote, not only most amusing, but highly instructive. Mr. Burgoss, whose memoirs we have lately published, is his ancient friend, and the two worthice may almost be classed as the remnants of the past. Long may they continue to us as examples of rectitude of conduct and stirling ability.

Messrs, John Taylor and Sons (London).—These gentlemen are so associated with mining ability.

and the two worthies may almost be classed as the remnants of the past. Long may they continue to use a examples of recitived of conduct and stirling ability.

Mears, Jone Taviou and Soss (London).—These gentlemen are so associated with mining, that it would be impossible to suparate the names and the strength of the Long may they continue to us as examples of rectitude of conduct and striking ability.

Messrs. John Taylor and Sons (London).—These gentlemen are so associated with mining, that it would be impossible to separate the names, lest they be misunderstood. They have long stood as beacons in mine management, having conducted many of the most extensive mining companies the world ever saw, if not with exactly uniform success, with uniform ability and honour. Their success, however, has been pre-eminent, having had, and still possessing, mines yielding prodigious returns. Their names are hosts in themselves, forming a sufficient guarantee for whatever they undertake being carried out in the most spirited and careful manner. These gentlemen are extensive and liberal employers, paying every man under them a fair remuneration, without any wish to cramp his abilities or curtail his emoluments by a false economy. They thus secure more than the average amount of talent; when they find that the case, combined with proper attention, they seldom change. The employed look up to their employers as their patrons and friends—a good example, which ought to be far more extensively imitated. Their mining speculations have extended to almost all parts, but are now chiefly confined to Wales, where they have splendid properties. It is reported they are about reopening one near Lampeter, from which, under their care, the most brilliant hopes may justly be entertained. These are the kind of men calculated to benefit mining interests, and encourage miners. We wish they were more numerous than they are, then would no shafts of scandal be hurled, no discontented agents grumbling, fewer disappointed and angry shareholders (for such there always will be), and consequently greatly increased dividends. It is to be hoped their proceedings for the future may be marked by the same characteristics as the past. The best well-wishers of mining could ask or desire no more.

Capt. Mattems Flancis, a native of Goldsithney, the son of the subject of one of

perience in Ireland constitutes him one of the best authorities of that country's capabilities, which meed we believe is universally awarded to him. Coosheen Mine affords an example; as when he assumed the man nagement the main lode had been lost by a slide heaving it. By his practice he was enabled to form an opinion which way the slide had thrown the lode. After driving a cross-cut 16 fms., at a cost of 30t, he discovered the lode, as he had anticipated, containing a splendid course of ore, of the rare variety for Great Britain termed malschite, some as large as 40 lbs. in a stone. Many thousands of pounds worth of copper were raised and sold hence in a short time. He has now, we believe, made arrangements for working some extensive copper and lead properties in the counties of Cork and Kerry, in which we wish and doubt not of his having good fortune. During the Iriah famine, in 1846, Capt. Thomas established a fishery, thus being instrumental in administering to the wants of and preserving many poor people, some of whom are still alive in the country; others have emigrated to America, and done well there.

#### MINING IN JAMAICA.

The following are particulars of our mining advices to Aug. 26:-

MINING IN JAMAICA.

The following are particulars of our mining advices to Aug. 26:—
The CLARENDOM COMSOLIDATED MINING GOMPANY have advices to Aug. 21:—A Stambrd Hill Mine, we are pressing forward as fast as we possibly can in our direction of the producing but little over; it is a state of the state, the local is looking more encouraging than when I last wrote, being about 5 ft. wide, with good with, yellow copen ore throughout. In the same level, south-wate of the shaft, the local is looking more encouraging than when I last wrote, being about 5 ft. wide, with good wills, consisting of flookan, popphyry, spar, iron, mundic, and sprigol copper ore. In. able character it has for some time past, being thickly spotted with copper ore; the able character it has for some time past, being thickly spotted with copper ore; the able character it has for some time past, being thickly spotted with copper ore; the state of th

Description.	March.	April.	May.	June.
Coalsper tor	a. 14e. 0d	14s. 0d.	14s. 4d	14s. 0d
Coals, Cardiff	18 4	18 4	18 4	18 4
Timber, balkper f	t. 0 10	0 10	- 0 11	0 10
Iron, commonper cw	t. 10 0	10 0	10 0	146
Iron, erown	18 0	13 0	18 0	-
Iron, hoop	14 6	14 6	man	
Steel, cast		50 0	80 0	80 0
Steel, H 2		Charles and the	20 0	-
Shovels, steeled		40 0		10.00
Mails, patent 4 in	-	19 9	f	-
Rope	OFFICE TOWNS	CONTRACTOR OF	-	44 0
Hemp	0 516	NE 0 0 1	STREET, STORY	-
Tallow	65 0	65 6	61 0	63 0
Gresse	-	12 0	-	1
Oil, oliveper gal	Total Mills	4 4 4	5 9	-
Candlesper do	E 7 0	7 3	7 0	7 3
Powderper 100 1b	a manager	1-111	51 0	-
Safety-fuse ner ooi		0 6	0 6	-

## Mining Correspondence.

#### BRITISH MINES.

BRITISH MINES.

ABBET CONSOLS.—E. Williams, Sept. 8: The men are progressing favourably with sinking the western engine-shaft, and it is yielding good orey stuff; they are also agetting on well with driving the drift opposite the shaft. The cross-cut to the south, in the castern level, is poor at present, but we had a small branch of lead in the same in about 2 feet from the level. The stopes cast of No. 7 are jimproving as we are stoping the ground away. Those cast of the rise are worth 8 cwts.; those in the rise are worth 8 cwts.; those in the rise are worth 9 cwts. of ore per fun. The level going west in the castern level is very kindly, and it is yielding some branches of lead ore mixed with blende. Our machinery is working well, and we are going on as fast as we can with dressing.

ALFRED CONSOLS.—M. White, T. Trelease, T. Hosking, Sept. 16: The lode in Field's engine-shaft, sinking below the 150, is just as for some time part. The lode in this level, east of the shaft, is 4 feet wide, unproductive. No change to notice in the lode, east of Davey's engine-shaft, since last report. The north part of the lode in the 120, east of Davey's engine-shaft, since last report. The north part of the lode in the part week have taken down the south part of the lode in this level, east of the same shaft; it is about 4 ft. wide, having a branch on the north part about 3 ft. wide, orey; this appears to be just getting under the ore ground of the levels above. We have just commenced in this level to cross-cut for the south lode. The north lode in the 110 is worth for copper ore 40. per fan; and in No. 2 winze, sinking under eaid isvel, 701. per fun. The north lode in the 30, east of this shaft, has a promising appearance. The north lode in the 30, east of this shaft, has a promising appearance. The north lode in the 10 is at present unproductive. All other parts of the mine are just as for some time past.

The north lode in the 70 is at present unproductive. All other parts of the mine are just as for some time past.

ANGARRACK CONSOLS.—J. Barratt, Sept. 16: During the past week operations have been carried on in this mine with all possible dispatch. The sinking of the engine-shaft is progressing as fast as can be expected. We are engaged in making the whim-round, and when completed shall erect the whim, after which we shall be in a position to make double the progress we can now. Since my last report we have discovered a caunter lode in the cross-cut, being driven south towards the engine-shaft; it bears about 20 north of east, 13 in., wide, underlaying south about 5 feet in a fathom; it is composed of mundic, blende, flookan, prian, and thickly impregnated with lead. This, with the east and west lode discovered in the previous week, which are 5 feet apart, dips through the engine-shaft between the 10 and 20 fathom levels; they are both very promising lodes, and will doubtless, from their appearance, become productive in a little depth. As quick as the timber can be cut, we shall divide, case, and put ladders in the engine-shaft between the 10 and 20 fathom levels; they are both very promising lodes, and will doubtless, from their appearance, become productive in a little depth. As quick as the timber can be cut, we shall divide, case, and put ladders in the engine-shaft between the 10 and 20 fathom levels; they are both very promising lodes, and the masons will commence to build the necessary small houses to day, and stones are being raised for the engine-house, which will be commenced immediately.

BALLYMONEEN.—Wm. Barkla, Sept, 12: The 15 cross-cuts, driving north and south, are progressing satisfactorily; the north driving is mineralised, but I should think we have about 8 ft. more to drive to cut the sulphur course opened on in the adit. The 15, driving south, has been driven since last report 3 ft. 6 in. total driven, 15 fm. 4 ft. 5 in. The 15, driving north, has been driven since last report 3 ft. 6 in. t

from the sail level; teacutors, and to be an a parameter than the sail level west.

BALLTVIRGIN.—R. W. Smith, Sept. 8: The shaft has been sunk about 3 ft. since Aug. 18; set to sink this month at 25f. per fm., producing good stones of copper ore. In No. 1 stope, about 3 fms. of ground were broken during last month; the lode at present will yield 1 ton of lead and 15 cwts. of copper ore per fm.; set this month to stope at 6i. 15s. per fm.; the lode is exceedingly hard, on account of the large quantity of saiphur it contains. In No. 2 underhand stope, about 4 fms. of the lode were taken away during last month; the lode at present will yield about 1 ton of lead and 10 cwts. of copper ore per fm.; set to stope this month at 5i. per fm. The two men in the rise to surface rose about 4 fm.; I have but four men in this bargain this month, at 10i, per fm., and will yield about 5 cwts. of lead ore per fm. I shall set a bargain to stope in the bottom of the 10, south of engine-shaft, in the winze there, to-morrow. We are yet short of weter for dressing purposes.

we are yet snort of weter for dressing purposes.

BAMPFYLDE.—C. Hand, Sept. 16: The water is now up in No. 4 shaft. The tew axie has not arrived. The men are getting a little ore from the adit. The arch f lode with ore in No. 4 shaft has been worked through, and we are now sinking brough old ground. A new lode has been this week discovered about 100 fms. south f the Bampfylde in the western hill, with good spots of ore in stones almost at the arface, and with micaceous iron, much resembling the Politimere lode. We are puting men to try this new lode, and have every reason to expect much ore when we et to the solid rock.

get to the solid rock.

BEDFORD CONSOLS.—J. Hodge, Sept. 17: We have suspended the engine-shaft in consequence of the late heavy rains having very much increased the water.—Air shaft: We have also a great increase of water here; we have put three mea from the origine-shaft here, making 12; the lode is as last reported, also ground, and fair process is being made. The ground and lode in the rise is as last reported. Nothing low in any other part of the mine.

new in any other part of the mine.

BEDFORD UNITED.—Jas. Phillips, Sept. 17: We are driving by the side of the lode in the 143 weet. In the 130 cast we have been rising to communicate with a winze sinking from the bottom of the 115; this winze and rise are now holed. The stopes in the bottom of the 115 cast will yield 4 tons of ore per fm., and the stopes in the back of this level are worth from 3 to 4 tons of ore per fm. We are driving by the side of the lode in the 115 west: we shall take down the crey part of it here in time for our next report; when taken down last it would yield 2 tons per fm. The lode in the 103 west is looking a little better, now producing from 3 to 4 tons of desent quality ore per fm. There is no alteration worthy of notice in any other part of the mine.

No mains.

RODOOLL.—F. Evans, Sept. 12: In the 10, driving west, we have a most promisg lode, about 4 feet wide, producing excellent stones of lead, mixed with beautiful
yestallised spar; the ground driven last week was 11 ft.: total driven, 26 fms. 3 ft.
in. The machinery is ample for all purposes.

and start across a very wars, producing excellent stones of lead, mixed with beautiful crystallised spar; the ground driven last week was 11 ft.: total driven, 26 fms. 3 ft. 9 in. The machinery is ample for all purposes.

BOG MINE.—W. Barratt, E. Rogers, Sept. 16: There is no material alteration in carr workings since last report.

BOILING WELL.—J. Delbridge, Sept. 12: The engine-shaft is cut down to the fix, and completed to that point. The 60 east is in favourable ground, we expect to have to drive 2 fms. to cut the lode. In the 60 west, on the north lode, the lode is 2 ft. wide, yielding some good copper orc., blende, peach, quartz, and the lode seems still to be bearing northward, and is yielding much water. In the 60 east, on the engine lode, the lode is 9 ln. wide, composed of flookan and spots of copper orc. In the 50 west, on south lode, the lode is 5 ft. wide, yielding fine stones of copper; this looks likely to be in whole ground, west of the present workings. In the 50 east, on the engine lode, the lode is 1 ft wide, yielding stones of orc. In the past month we have driven north and cut Hallett's lode; the lode is 9 ln. wide, yielding some good orc, opening in tribute ground; this lode and the level is 5 fms. south of the engine lode. In the 40 west, on the south lode, the lode is 9 ln. wide, yielding some good orc, opening in tribute ground; this lode and the level is 5 fms. south of the engine lode. In the 40, east of King's, towards Austin's lode, the lode is small at present is tappears this lode is howe south, which we intend driving south to prove its value. In the 20, west of Austin's lode, the lode, the lode is disordered by a cross branch, and is letting out more water than usual; lode 3 ft. wide, yielding tone of orce, but not to value. In the 30, east of King's lode, the lode is 9 in. wide, yielding lead and exper ore, and opening in good tribute ground. Our tribute pictore by a cross branch, and is letting out more water than usual; lode 3 ft. wide, yielding lead and exper ore, and openin

he lode on Monday next.

BULLER AND BERTHA.—J. Hambly, Sept. 15: We have cut into the south rall of the lode in the engine-chaft, and find it nearly 5 ft. wide, but showing no parcular improvement since my last. We are actively employed in preparing for the hazons to build the engine-house, &c., and hope to have the engine up and in order to work when it may be required.

work when it may be required.

CAMBORNE CONSOLS.—W. Roberts, Sept. 16: The levels are progressing favourbly, but without any improvement to notice since last reported.

CARADON CONSOLS.—Wm. Rich, Sept. 16: We have commenced clearing the
unf deposited behind the outer dams in the 33. The water at present appears to
just the same as it was before we had the run, so that it is now being easily kept
ader. We have either completely drained the old shaft, or else the sediment kept
ack by the inner dams have filled up the level so as to prevent the water from
uning back. We intend clearing the level as far as we deem it safe, but there may
stills large pool of water secunulating ahead of us, being kept back by the inside
ms, therefore I think it will not be prodest to open them until we put down other

rained, as also to see in what condition the shaft is in below the adit.

CARVANNALL.—W. Roberts, Sept. 15: Nothing new to report this week.

CARVATH UNITED.—R. Hancock, Sept. 13: We have cleared up the shaft to the ottom of the castern adit, and cut a plat, and taken down a piece of the lode 3 fms. length; the lode is about 3 feets wide, and producing some rich work for in. We are set the end to six men to drive west on the course of the lode, and set to two the to clear the adit east, were I see the old workers have sunk in the bottom of the vel east of this shaft, how deep I do not know, but in a few weeks we shall be able one, when we clear the isvel eastward. I find on the top of this sink there is some old tinstuff. We have fixed a horse-whim on this shaft to draw away the stuff. The engine-house walls are nearly finished, and we shall begin to pat in the engine-house walls are nearly finished, and we shall begin to pat in the engine in a few days. We have cut down the engine-haft to the additievel, and are preparing to put in the pumpwork. We are going on as fast as possible with the work, and after a little time I hope to find a mine, and a lasting one also.

CATHERINE AND JANE CONSOLS.—T. Treweek, Sept. 17: The deep adit end men have brought up some splendid stones of lead ore, saying the lode is greatly improved; I will state its value in my next report.

as the other; nevertheless, if it should hold as at present, we shall have about 4 tons this month. We have not added to the 5 tons odd which has been waiting to send away; our dresser has not been able to work for want of water. We have about 100 of the trees on the mine, and shall not require any sore for the present.

DALE.—R. Niness, Sept. 17: No. 3 lode, in the 32 south, still continues to look well, and is turning out some very good ore. The stopes on this lode continue much the same. The stopes on Johnson's lode are without alteration, and so is every other part of the mine. We shall commence sanding down the lift for the 32 winze in the morning.

anse. The stopes of Johnson's lock are without atteration, and as severy other part of the mine. We shall commence assaing down the lift for the 32 wisse in the morning.

DAREN.—J. Humphreys, Sept. 7: Pransis level: There are now 18 fms. more to drive the level before we reach the old mine, according to the measurement of Capt. Francis, last week. The ground looks very favourable for ore, but in that we are breaking there is none to value. The new stope is worked by four men, at 63s, per fm., tutwork, and will pay better than by letting it on tribute, as the mes are breaking core is large quantities. All the other stopes in the mine are worked on tribute with usual success. On surface I have only a trammer, a spaller, a smith, and an occasional carpenter. The old burrows I have let to my dresser and another on tribute.

DENHAM BRIDGE.—R. R. Hambly, Sept. 16: We have a very important discovery—we have a good branch of copper ore in the adit end, on the south lode, driving west. The ground is changed, as well as the lode. We look forward for further improvement, as we have now in the end branches and strings of copper and mundie, from 2 to 3 ft. off the lode; and I believe we shall soon have a sourse of ore, as these are favourable indications for such a result.

DEVON AND CORNWALL UNITED,—T. Neill, Sept. 15: Saturday last being our setting-day, the following bargains were let:—The 40 to drive north on the cross-course by four men, stented the month, or to at the lode, at 54, per fm.—Bastard's Level; to meet the midway end, by four men, stented the month, or to a hole, at 84, per fathom. The midway end to drive by six men, stented the month, or to hole, at 84, per fathom. The midway end to drive by six men, stented the month, at 14, per fm.; lode 3 ft. wide, worth 12 tons of good ore per fm.—An end to drive west to drive morth by two haft let to four men, at 8a. in 14; lode worth 3 tons per fm. An end to drive west on the south lode by four men, stented the month, at 15, per fathom. A pitch east of shaft let to f

adit end to be driven by six men, stanted the month, at 7t, per fm.; to 1e 3 ft. wide, worth 3 tons of ore per fm. We shall sample on the 25th inst. about 200 tons of ore.

DEVON BULLER.—W. Neill, Sept. 17: Saturday last being our pay and setting-day, the following bargains were set:—The engine-shaft, which is 9 fms. below the 4t fm. level, is set to six men, at 15t. ber fm. The 4t end to drive west by four men, at 3t. 5s. per fm.; the lode is 2 ft. wide, with good spots of copper ore, and every indication of further improvement. The 32 and to drive by one man and one boy, at 2t. 5s. per fm.; this at present is small and unproductive, but the character of the ground being so favourable, there is every prospect of its becoming again productive. The stope in the back of this level is set to four men, at 1t. 5s. per fm.; the lode is yielding 1 ton of ore per fm. The new stope in the bottom of this level by four men, at 1t. 15s. per fathom; the lode is 2½ ft. wide, producing good work. The 32 end to drive east by one man and one boy, at 2t. 5s. per fm.; the lode is 1 ft. wide, composed of spar, mundic, and stones of copper ore. The 20 end to drive west by two men and two boys, at 3t. 5s. per fm.; the lode is 1½ ft. wide, yielding some good stones of ore. The 10 end to drive west by one man and one boy, at 2t. 10s. per fm.; the lode is 1½ ft. wide, yielding some good stones of ore. The 10 end to drive west by one man and one boy, at 2t. 10s. per fm.; the lode is 1½ ft. wide, yielding some good stones of ore. The 10 end to drive west by one man and one boy, at 2t. 10s. per fm.; the lode is 1½ ft. wide, yielding some good stones of ore. The 10 end to drive west by one man and one boy, at 2t. 10s. per fm.; the lode is 1½ ft. wide, yielding some good stones of ore. The 10 end to drive west by one man and one boy, at 2t. 10s. per fm.; the lode is 1½ ft. wide, yielding some good stones of ore. The 10 end to drive west by one man and one boy, at 2t. 10s. per fm.; the lode is 1½ ft. wide, yielding some good stones of ore. T

sioned this. The tribute pitch has improved a little since I wrote you last, and has every appearance of a further improvement.

DOLWEN.—F, Evans, Sept. 12: The lode in the adit level west is looking a little better, with sulphur and cross-branches of lead; driven last week 2 ft.: total, 60 fms. 0 ft. 5 in.; the ground is easier for driving, and re-set to-day at 54. 10s. per fathorn. The valley shaft has been sunk since last report 4 ft. 6 in.: total depth, 7 (ms. 0 ft. 9 in.; with the present dry weather there is not much water, and it is re-set at the former price—14t. per fm.; the lode is still very promising, with occasionally cubes of lead.

EAGLEBROOK.—H. Tysek, Sept. 15: The mine is looking well everywhere; we have been able to recommence sinking the east, or copper shaft below adit, and we are now down about 8 fms. The lode is very promising, composed of soft white spar, goesan, and rich stones of copper ore. We are sinking on the south part of the lode, but when we have smalt 10 fms. shall cross-cut it to the north; be lode in this place is very wide. There are now two stopes, cast of the engine—shaft from the 5, one on the north part of the lode, and one on the south wall, with a strong horse of ground between. The stope on the south part of the lode is about 6 ft. wide, of goesan, stones of rich lead and copper. That on the north part is about 5 ft. wide, of goesan, stones of rich lead and copper. That on the north part is about 15 wite, ser fm. In fine 10, from No. 1 cross-cut to north lode, driving east on the course of the lode towards engine—shaft, is a fine lode, with a branch of lead about 7 in. wide, and strings good lead ore both blue and white, and protacing about 15 wite, and strings going off to the north, but wide as we have already seen it, there is great portion of this lodes till standing to the north, which must be taken down. There are four men stoping the back of this level in good ore. In consequence of want of water, the nen working in the back of the 10 (south lode). There is a l

seen in the acit, 40 fms. east of engine-shaft, and from which (above acit) we have had the chief part of the ore last sold.

EAST ALFRED CONSOLS.—H. Skewes, Sept. 15: Painter's engine-shaft is now down 145, fms. below acit level, and will be completed to the 15 in the course of the week, when we shall drive south to intersect the lode, which we calculate is only a very short distance from the shaft. The south lode in the acit level continues to look favourable, being composed principally of blende, with splendid stones of copper ore, and it should be borne in mind that this is a very beautiful elvan course, I believe the same that passed through the Wheal Alfreds, and is which the lodes of those mines produced very rich. The stopes in the back of the acit level and the acid end continues to produce ore, just as for some time past. Our next sale of ore will be the best that we have ever had.

EAST CABN BREA.—T. Gianville, Sept. 16: In the north-western part of the seit we are clearing another old shaft, in which we find some beautiful stones of yellow and grey copper ore. We hope to complete the shaft this week to the acit, when we shall be able to explore the lodes further east.

EAST PROVIDENCE.—W. Hollow. T. Uren, Sept. 15: The eastern adit is driving

EAST CARN BREA.—T. Glanville, Sept. 16: In the north-western part of the seit we are clearing another old shaft, in which we find some beautiful stones of yellow and grey copper ore. We hope to complete the shaft this week to the adit, when we shall be able to explore the lodes further east.

EAST PROVIDENCE.—W. Hollow, T. Uren, Sept. 15: The castern adit is driving west by two men, at 45s. per fm.; the lode here is large—2 feet wide, and of a very kindly appearance, producing a little tin, but not much to value. Wheal Smith seit is driving south by two men, at 61. per fm.; in this cross-cut we expected to have cut the lode by this time, but have not yet done so. Wheal Mount adit is driving south of the Comfort lode by four men and one boy, at 41. 10s. per fm.; the lode in this end at present is not so productive as it has been, by reason of a hard channel of ground at present is not so productive as it has been, by reason of a hard channel of ground opening tribute ground. We hope shortly to get through this hard ground, and is opening tribute ground. We hope shortly tog et through this hard ground, and is opening tribute ground. We have cleared up some old workings on a caunter lode, and find in the bottom of them a lode worth from 31. to 101. per fm.; but we are prevented from any further operations by reason of so much water issuing from the productive of them as lode worth from 31. to 101. per fm.; but we are the stones of ore—before this we have not seen such a lode. In the 22 east, the lode is 30 in. wide, and in the last 2 or 3 feet sinking we have broken some right. The lode is 30 in. wide, and in the last 2 or 3 feet sinking we have broken some right. The lode is 30 in. wide, and in the last 2 or 3 feet sinking we have broken some right. The lode is 100 in. wide, and in the last 2 or 3 feet sinking we have broken some right. The lode is 100 in. wide, and in the last 2 or 3 feet sinking we have broken some right. The lode is 100 in the call the sinking as well as a good branch of ore. In the 22 west th

men have brought up some splendid stones of lead ore, saying the lode is greatly improved; I will state its value in my next report.

CLARA.—S. Trevethan, Sept. 12: We have suspended the rising and stoping in the back of the 26, where we have been working for several months past, and have commenced a rise on the source of the lode, about 5 fathours from the the total of white the state of the 26, where we have been working for several months past, and have commenced a rise on the source of the lode, about 5 fathours from the past, and the satisfact of the 26, where we have been working for several months past, and have commenced a rise on the source of the lode, about 5 fathours from the past commenced the clearly deeper in this place; here the ground is rather easier for breaking, and the lode about 3 ft. wide, good mixture of ore. We are doing the best that can possibly lode about 3 ft. wide, good mixture of ore. We are doing the best that can possibly took about 3 ft. wide, good mixture of ore. We are doing the best that can possibly commenced to drive north and south on the cast lode after 1 in a little further than the commenced to drive north and south on the cast lode in the 5t, the logs, we had to drive the cross-cut 4 fms. further than the commenced to drive north and south on the cast lode in the 5t, the logs, we had to drive north and south on the cast lode in the 5t, the logs, we had to drive north and south on the cast lode in the 5t, the logs, we had to drive north and south on the cast lode in the 5t, the logs, we had to drive north and south on the cast lode in the 5t, the logs, we had to drive north and south on the cast lode, in at present abouting some good spots of lead, but not rich; we consider we have about 4 ft. we are making good ground the cleared out, and like a present abouting the best fathers are doing the back of the 20 are worked to the 5ft. level the same love the contained the clear of the containe

which is 4 ft. wide, and much of the same character as for several weeks past. The lode in the stopes still holds good. There is no alteration in any other part of the mine.

which is 4 ft. wide, and much of the same character as for several weeks past. The lode in the stopes still bolds good. There is no alteration in any other part of the mine. GREAT CRINNIS.—E. Shaw, W. Woolcock, Sept. 14: We have five pitches working at various levels east of Daniel's shaft, which we estimate at 3i, per fm. for copper ore; alx pitches working at the 10, 17, and 24 fm. levels at old sump and Coraish's shafts, we value on an average at 7i. per fm.; two pitches east and west of Catherine's shaft, in the 31 fm. level, we estimate at 4i. 10s, per fm. On the middle lode, west of the engine-shaft, the tributers are still desuing. The sumpmen's stopes and the pitch adjoining at the 50, east of Union shaft, we estimate at 1il. per fm. GREAT HEWAS UNITED.—J. Webb, Sept. 16: Western Mine: We have not taken down any lode in the 96, but still driving by the side of it; the 36, 76, and 66 continus to produce saving work.—Eastern Mine: The lode in the 56 is very promising to be productive in this direction; the lode in the 56 is 2 ft. wide, with good work. Charles's shaft is about 7 fms. below the 30. The 20 cross-cut is driven north 5 fms. towards the north lode; ditto south for the south lode, 5 fms. We have now to take the north cross-cut me to assist the south, to effect a communication with the 20 driven from the long rise. We have shout 5 fms. further to drive this cross-cut, and shall then be well ventilated; at present we need it much, especially while we have light close weather. This (the eastern) mine is opening out well. The tribute pitches and stopes are yielding their usual quantities of tin. We shall not sell less than 16 tons this week.

less than 16 tons this week.

GREAT SHEBA CONSOLS.—J. Spargo, Sept. 16: By the latter part of next week we hope to reach the 10 fm. level under adit, at which point we shall out plat and extend on the lode. We again out into it at the despect point last night, and have broken some fine stones of ore. We are getting our floors ready as fast as possible, as from all appearance these floors will be occupied by some of the largest and richest parcels of ore that have been hitherto dressed from the mine. The pitches in the western mine are without alteration.

tend on the lode. We again out into it at the despest point last night, and have broken some fine stones of orc. We are getting our floors ready a fact as possible, as from all appearance these floors will be occupied by some of the largest and richest pareals of ore that have been hitherto dressed from the mine. The pitches in the western mine are without alteration.

GREAT SOUTH TOLQUIS.—The lode in the 80, west of new shaft, is 2 feet wide, producing 4 tons of copper ore per fm. In the winne sinking below the 70 the lode is 3 ft. wide, producing 4 tons of copper ore per fm. In the winne sinking below the 70 the lode is 3 ft. wide, producing 4 tons of copper ore per fm. In the winne sinking below the 70 the lode is 3 ft. wide, producing 4 tons of copper ore per fm. In the winne sinking below the 70 the lode is 3 ft. wide, producing 4 ton and intend to rise at this point next week; the lode looks well, and we will report more fully on it next week. We have been cross-outing through the lode near the extreme driving north at the lared, and have seen the lode 5 ft. wide, but have not reached the east wall. The lode is well as in the east in the 10 south is not yet alsered. The 10 cast, on the old lode is very require, with a branch of ore 1 floot wide, of fair quality. The lode in the winne in the bottom of the adit is 2 ft. wide, filled up with capel, flookan, and small, but with branches of lead, the ground favourable; the winne, this day, is 5 fm.s. I ft. 4 in, below adit.

GREAT WEST SORTRIDGE.—Jas. Richards, Sept. I 7: The engine-shaft, which is in regular course of sinking below the 40, is down 7 fms.; the ground is Arourable for progress. In the 30 west the lode has, during the past week, yielded some rich stones of ore, and is still very promising.

GREAT WHEAL ALFRD.—M. W. Michell, William Bugelhole, Sept. 12: No change in the 180 fm. level, went of Copper-house shaft, since last report. We have examined the state of the state

the 50 cross-cut north have commenced working this morning, two pares on tribute, and I expect to set another pitch to-morrow. I will give you full particulars of the lode in the shaft next week.

HINGSTON DOWN CONSOLS,—W. Richards, Sept. 16: The 100 fm. level, west of Morris's shaft, is without change to notice. The same remark will apply to the lode in the same level, east of Doldge's winare. We hope to commence sinking Doldge's winare below the 106 by the end of the present week. The lode in the 55 east is 5 ft. wide, composed principally of quarts, impregnated with rich yellow copper ore. In the 75 east the lede is quite equal to my report of last week. The lode in the 55 is equally large, but at present not quite so orey as last reported. In the 55 east the lode is large, but at present unproductive. The lode in the 35, west of Histohen's shaft, is from 2 to 3 ft. wide, composed of gossan, quarts, mundic, and ore, altogether kindly. In the same level east, on the north lode, some saving work is being broken. The ground in Thomas's shaft is not so easy of progress as it has been, but is of highly mineralised character. The stopes and pitches are without much alteration.

HOLMBUSH,—Sept. 15: The lode in the 145 west is increased in size, but as yet not producing more ore than last reported. In the rise in back of this level a cross-course has been intersected (driven through at the 139 underlying east from 3 to 4 ft. in a fathom: the lode is hove sonth. In the 145, on the copper branch, the lode continues to yield: I tom of ore per fathom, worth 9t. per ton. In the 145 south, on the lead lode, the leading part of the lode (which is 18 in. wide) is composed of fluor-spar, prian, &c., interspersed with some good stones of nilver-lead ore. The lode in the winze in the bottom of the 145, east of the diagonal, is producing 145 ton of ore per fathom, worth 10t. per ton. In the 160 west of diagonal, the lode continues to produce 1 ton per fathom, worth 10t. per ton. In the 160 west of diagonal, the lode continues t

intermixed with copper, mundic, &c.—altogether a very promising lode, with an increase of water.

KELLY BRAY.—S. James, Sept. 12: In the rise in back of the 100 east there has not been any lode taken down since last reported; it is 2 ft. wide, producing elones of orc. The lode in the 90 west is 1½ foot wide, yielding I ton of ora per fm., worth 51. per fm. The lode in the 45 west is 2½ ft. wide, bespangled with ore and mandic throughout—a very kindly lode; we have every reason to expect an improvement here before long, as there is a rich lode in bottom of the 35, just above the present end. The lode in the 35 west is a little improved, it is worth 221, per fm.—a promising looking lode to hole for some distance further; we have driven? fms. through this bunch of orc, which is looking very well both in back and bottom of the level. As regards the operations in the eastern mise, they are progressing favourably. The engine-shaft is being sunk 5 fms. If, below the 50, and the whim-shaft has been sunk 1 fm. In the past week below the above-named level, and the ground is still favourable for sinking. The pitches generally throughout the mine are yielding their usual quantity of orc, and we are very busily engaged in dressing ore for another sampling, which will take place on Sept. 25, when we hope to sample about 100 tons of moderate quality ore.

rate quality ore.

LADY BERTHA.—J. Metherell, Sept. 17: We have completed the cutting down of the punch pit, and have nearly finished the read for the drawing-machine; we shall, to-morrow, the 18th inst., commence cross-cutting the lode, which I have no doubt will be a good one. The lode in the eastern end in the 20 is about 3 feet wide, producing capel, mundic, and good spots of ore, with a large stream of water configrom the end. In the western end in the same level we have, this past week, stripped down about 10 ft., of the lode, which has turned out some good work; the part of the lode we are carrying is about 3 feet wide, composed of capel, peach, quarts, mundic, and ore, worth of the latter about 1 ton per fim., and promising a further improvement. The pitches in the back of the same level are not looking so well, still turning out moderate quality work according to their tributes. Nothing else new to report.

MOLLAND.—T. Remarks. Sent 16. The stores in back of the 20 are worth about

a great be in be in be in be in be in be in a gen a gen a gen a great where the gen able, work by the and ward the great the great be able, work by the and ward work by the and ward the great all great a lings, will i be a land a lings, a land a la

SEPT. 19, 1857.]

## THE MINING JOURNAL.

always glad to see it, because copper ore, more or less, was invariably discovered in its riginity.

always glad to see it, because copper ore, more or less, was invariably discovered in its visinity.

NEW WHEAL VOR AND EAST WHEAL METAL.—Jos. Vivian, N. Thomas, sept. 13: In the East Wheal Metal part of your ground we have this day reached what seems to be the eastern extremity of the works anciently made on the Wheal Brambie lode, where the lode is upwards of 2 ft. wide, and promising; and as at some former period there must have been large quantities of tin raised from this particular lode, through we cannot for some little time ascertain the extent of the excavations, as they are continued below the adit, and are at present filled with water, we anticipate very favourable results as we proceed. We are clearing the adit on Park-ansiep lode very expeditiously, but have not yet reached whole ground. We are also clearing the adit or part and the adit of the edges of a fortnight to reach the adit driven on the Penprazo lode, as to which we are led to expect great things. In consequence of an error in dialling an the part of those who formerly worked it, in a rise against the shaft sunk on the adit on the Wheal Metal lode in your eastern ground, we have been obliged to cat down the bottom part of the shaft, and this has necessarily occasioned us some delay; nevertheless we hope to get down to the adit, and to have the shaft in good working condition in about ten days, and we have much pleasure in saying that we expect this lode will soon become a very valuable part of your property, especially as your sett extends nearly a talle in length upon it. In our shaft on the great north or Trueman's lode we have a very large and most promising lode, containing a little in throughout; we are now down about 1? fms. from the surface, but this morning we were again prevented from sinking farther by a sudden influx of water, which, as on former occasions, we expect will subside or disappear in a few days; but it is not very material, as we shall be ready to work our engine in about a month, the house being covered in, the bob

about 17 fms. from the surface, but this morning we were again prevented from sinks further by a sudden influx of water, which, as on former occasions, we expect will subside or disappear in a few days; but it is not very material, as we shall be ready to work our engine in about a smonth, the house being covered in, the both raised to its place, and everything else in a state of forwardness.

NOETH BASSET.—T. Glanville, Sept. 18: In the 42, west of Grace's shaft, the south lode is yielding 2 tons of ore per fm. In the winze sinking below the 53 the north lode is yielding 3 tons of ore per fm. In the winze sinking below the 53 the north lode is yielding 3 tons of ore per fm. In the winze inking below the 53 the north lode is yielding 3 tons of ore per fm. In the 54, the north lode is yielding 3 tons of ore per fm. In the 54, the north lode is yielding 3 tons of ore per fm. In the 54, the north lode is yielding 1 ton 5 ore per fm.

NORTH BULLER.—Thos. Glanville, Sept. 16: Since fixing the waterfall, I find the air in the cross-cut very much improved. There is now a large stream of water issuing from the end, which leads me to believe we are near the shaft. At Louisashift, the ground is still hard for staking, and the air very impure. In the winze sinking below the 50 the lode is 1 ft. wide, composed of blende and good atones of ore. NORTH FARNCES.—P. Hosking, Sept. 12: We have drivers I fm. 3 ft. west of Eale's shaft in the 75 fm. level; the lode is 3 ft. wide, and very promising, with some good ore. We are cutting the plat at the same time. We have two men atoping the bottom of the 42 fm. level; the lode is 3 ft. wide, and very promising, with some good ore. We are cutting the plat at the same time.

NORTH TAYY.—R. Williams, Sept. 17: The men are at present, it was a substantial to the 20 the 30 fm. in level with a direct of the document of the 50 the order of the 50 the 50 fm. in level with a direct of the 50 the 50 fm. in level with a direct of the 50 th

speed, and, after being spalled up, it is carried from the floors as usual by our own rail on to the Devoran Railroad, right but to the steam stamping engine, and there crushed down.

PEMBROKE AND EAST CRINNIS.—J. Dale, G. T. Treuren, Sept. 15: In the 162 cross-cut, south from Reld's shaft, the ground is still hard. In the 162 cross-cut north the ground is favourable for driving. In the 100 end west, at Smith's shaft, no blet taken down for the past wesk, the men are at present driving by its side. We have broken down a portion of the lode behind the 100 fathom level end east, which is looking very promising, it is about 15 inches wide, producing from 1 to 1½ ton of ore per fathom. Since our last report we have effected a communication from the 99 fm. level to the 100 fm. level to the 100 fm. have not taken down any of the lode is the winze or in the 100 ead east during the past week, but intend doing so in the course of a day or two. In the stope in the bottom of the 90, east from Smith's shaft, the lode is from 5 to 6 ft. wide, worth from 15/t. to 18/t. per fm.

PENDEEN CONSOLS.— Wm. Eddy, Sept. 12: Nothing new of importance this week. We shall begin on Tuesday to take down ahe lode in our 70 north. I expect it will take us all the week to get it down and send it to surface. We shall also take down some lode in the shaft.—we have not broken down any for the last 3 fms.; I mean the in-ide part of the lode, which has been standing for a foot-wall for the hibble to work over; now we are down to the 28 we shall begin abs and the shaft when the surface, and shall find some decent saveable ore. I am looking forward very much to next week's taking down of lode; it has a very promising appearance, and I am happy to say the crusher works well. We have also cut through from the eastern adit level to the shaft above, and have at present four men stoping in this place. A tribute bargain was lately set to gather the ore from the old burrow at the Old Llywernog Mine, and I am glad to see such heaps of lead ore and blende c

have also cut through from the eastern acit ievel to the shalt above, and nave at present four men stoping in this place. A tribute bargain was lately set to gather the ore from the old burrow at the Old Llywernog Mine, and I am glad to see such heaped flexifore and blende collected. Before the end of this work we shall send a small lot of ore to Aberystwith.

FORKELLIS UNITED—J. B. Wilkins, Sept. 18: During the past month Goatley's shaft has been sunk below the 45 fathom level 2 fnns. 3 ft. 5 in.; the lode in the shaft is disordered by a cross-course. The stamps shaft, sinking below the 24 fathom level, has been sunk 2 fnns. 6 in.; the lode in the shaft small, but producing good stones of tin, A winze has been sunk in the bottom of the 35, on Moyle's lode, 1 fm. 1 ft. 7 in, and we hope to communicate with the rise before the end of September. A winze, sinking from the 24 before Wheal Ast-end, has been sunk below the 24 fathom level 1 fm. 1 ft.; the lode in the shaft worth 15/ per fm.—Brenton's lode: Pary's shaft, sinking below the 22, has been sunk 1 fm. 6 in.; the ground in the shaft is very hard, apparently a patch of elvan.—Pooley's dode: Pooley's shaft, sinking below the arrace, has been sunk 2 fm.—Henton of the cross-cut a shaft shaft

ROSEWALL HILL AND RANSOM UNITED.—Paul Romeh, Sept. 16: Since the 5th inst. we have cleared 9 fms. in the holds, making in all 435 fms. since July 10. We have put in the cylinder and other important parts of the steam-engine, cut down 2 fms, at the engine-shaft, completed for the foundation of steam-whim, and made a plat for the horse-whim, with much other preparatory work for the machinery, &c.

ROSEWARNE CONSOLS.—J. Dale, Sept. 12: The north erose-cut is progressing favourably; it is now extended 5 fms. 3 ft. from shaft. The engine-shaft is down 18 fms., ground still good for sinking; yesterday the men took it for the month, at 71. per fathom—a sheap shaft. The crost-cut in the 15 is extended north 5 fms. 3 ft. towards the grey ore lode, and expect to cut it in the course of a week or ten days. Captian Richards and myself have carefully examined the tin branches, and have decided on exploring by way of a cross-cut from the bottom of the shaft, which is 6 fms. 3 ft. under the old workings. The engine works well, and is consuming only about 6 cwts. of coal in 24 hours.

SORTRIDGE CONSOLS.—J. Richards, Sept. 17: Hitchina's engine-shaft is in regular course of sinking below the 62, in favourable ground for sinking. The lode yields good stones of or occasionally. In the 62 cast the cross-course is intersected and cut through, to the east of which a portion of the lode is again met with; it is composed of quarts, mundic, prian, peach, and a little ore—promising. In the 50 cross-cut south a lode has been met with, 2 ft. wide, composed of capel, mundie, courts, and a little prian. In the 50 west the lode is become small (1 ft. wide), composed of ittle gossan, capel, and mundie. In the stopes in the back of the 50 cast the lode is worth 1½ ton of ore per fm. In the 40 west, and west of the cross-course, no lode has yet been met with; it ground is still disordered.

SOUTH BEDFORD CONSOLS.—Jas. Phillips, Sept. 17: The eroes-cut south in the 36, west of Gailett's shaft, is cleared in to the south lode; this lode is cut th

SOUTH BOG.—S. Morris, Sept. 17: The lode in the end in the 45, driving north, is 2½ ft. wide, composed of spar, and intermixed with lead ore; the water is issuing from this end very much, which in my view is a good and sure eign of something closs before us. The lode in the end, driving south, is rather small at present, and the ground hard for driving; consequently, the men have not made much progress, but I fully expect the lode to increase in eize, and become more easy for driving as we proceed. I think the time is not far distant when I shall have something good to report on at these points. I have put two men to stope in the back of the deep adit, south of the engine-shaft, and the lode will produce about 8 cwts. of lead ore per fm. We have two men enlarging the coal-yard, &c., at surface. All things are going on satisfactorily at the mine.

port on at these points. I have put two men to stope in the back of the deep adit, south of the engine-shaft, and the lode will produce about 3 ewts. of lead ore per fin We have two men enlarging the coal-yard, &c., at surface. All things are going on satisfactorily at the mine.

SOUTH CARN BREA.—T. Glanville, Sept. 11: Tutwork Setting: The flat-rod shaft to sink under the 58, by nine men, at 21. per fm; lode 3 ft. wide, yielding 1½ ton of ore per fm. The 58 to drive east of the flat-rod shaft, by six men, at 29, per fm.; lode yielding 1 ton of ore per fm. The 58 to drive east of the flat-rod shaft, by two men, at 91, per fm; lode 5 ft. wide, yielding stones of ore. The deep addit cross-cut to drive south, by eight men, at 291, per fm.

SOUTH CRENVER.—J. Debirdage, E. Chegwin, Sept. 14: In the 105 fm, level we have set to the sump-men to cut a plat, put fin penthouse, and prepare for sinking the flat-rod shaft from the 105 to the 115, for 301. In the 105 west the lode is 12½ feet wide, 2½ tone per fm. the 44 rise, the 34 west, and the 24 rise the lode is 2½ feet wide, 1½ ton per fm. In the 44 rise, the 34 west, and the 24 rise the lode is 2½ feet wide, 1½ ton per fm. In the 44 rise, the 34 west, and the 24 rise the lode is 2 feet wide, 1½ ton per fm. In the 44 rise, the 34 west, and the 24 rise the lode is 2 feet wide, 1½ ton per fm. In the 44 rise, the 34 west, and the 24 rise the lode is 2 feet wide, 1½ ton per fm. In the 44 rise, the 34 west, and the 24 rise the lode is 2 feet wide, 1½ ton per fm. In the 44 ness, the lode is 20 in, wide, stones of ore.

SOUTH GARRAS.—John Champion, Joseph B. Champion, Sept. 16: Lenderyou's engine-shaft is down to the 50, and in the course of eight or nine days we expect the shaft will be completed, so that we shall be enabled to drive our levels in the 50. The lode has improved since our last report. In stripping down about 3 ft. of the lode in the 40, north of engine-shaft, we find it is worth 20. per fm. for lead ore, and the lode standing west is apparently as productive.

At surface, every exertion is being made to erect our stamps as quickly as possible. I hope shortly to have 24 heads at work.

8WANPOOL.—J. Kitto, Sept. 16: The lode in the 20 fm. level, in the western part of the mine, is 6 ft. wide, 4 ft. of which is saving work for lead, worth at present 15/2 per fm. The stopes in the back of this level, No. 1, west of engine-shaft, are worth 22l. per fm.; and No. 2, west of footway-shaft, 4/1, per fm. The stopes in the back of this level, No. 1, west of engine-shaft, are worth 22l. per fm.; and No. 2, west of footway-shaft, 4/1, per fm. The stopes in the back of the 30 fm. level, No. 1, east of engine-shaft, are worth 10l. por fm.; No. 2, east of footway-shaft, 8/l. per fm.; and No. 3, east of new shaft, 10l. per fm. is only not have 10 fm. level, No. 1, east of engine-shaft, are worth 6/l. per fm.; and No. 2, east of engine-shaft, are worth 9/l. per fm.; and No. 2, east of engine-shaft, are worth 9/l. per fm.; and No. 2, east of engine-shaft, are worth 9/l. per fm.; and No. 2, east of engine-shaft. 3/l. per fm. The south cross-out in this level is without any material alteration. All other operations are going on satisfactorily. We shall ship 60 tons lead ore to-morrow. TAMAR SILVER LEAD.—T. Foot, Sept. 8: In consequence of having been compelled to remove the old and put in a new balance-bob in the 115 there has not been much done at the engine-shaft since last report. The lode in the 215 south is 5 feet wide, and will produce 6 ever. of lead per fathom. In this level, yielding respectively 8 and 3 owto. of lead ore per fathom the western end, is nepended; the lode in the end is 3½, feet wide, and worth 10 cwts. of lead per fathom. In this level, driving north, the lode is 2 feet wide, and worth 10 cwts. of lead per fathom. In this level, driving north, the lode is 2 feet wide, and worth 10 cwts. of lead per fathom. There are five stopes working in the back of this level, and level in this level, driving north, the lode is 2 feet wide, and worth 20 cwts. of lead per fathom

lows:—No. I. 21 owts.; No. 2, 7 owts.; No. 3, 8 owts.; No. 4, 12 owts.; and No. 5, 6 owts. of lead per fathom. In the 190 there are two stopes, which are worth 7 and 6 cwis. of lead per fathom.

TAVY CONSOLS.—R. Williams, Sept. 17: The prospects of this mine are without atteration since my least report. The sinking of the shaft is proceeding satisfactorily.

Tincrept.—W. Teague, J. Andrew, J. Cook: At North Tineroft, in the 184 fm. level, driving west of Tyrie's engine-shaft, the lode at present is poor. In the 184, east of shaft, the lode is 2½ ft. wide, producing saving work for tin. In the 142, east of shaft, the lode is 3½ ft. wide, producing saving work for tin. In the 142, east of shaft, the lode is at present unproductive. There is no alteration in the 100, on East Pool lode, since last reported. We have resumed the driving of the 60, east from Willoughby's shaft, but up to this time have not found anything worthy of notice. On Highburrow lode, we have commenced to drive the 173 cast and west of Maritis east shaft, and value them at 201, per fm. each. In the 162, driving east of shaft, the lode has not been taken down since last reported. We shall resume driving the 142 west of downright shaft in the course of a week or two. The stopes and pitches continue to yield fair quantities of tin and copper, and shall sample to-morrow 352 tons of copper ore.

TREWETHA.—T. Richards, W. Rowe, Sept. 16: The lode in the 70 north is without change; the south end is worth 41, per fm. The 50 north is worth 41, 10s, per fathom. In the 50 nothing new has been discovered. The stopes are yielding on an average about 44, 10s. worth of ore per fuj.

UNITED MINES (Taylstock).—J. M. Champion, Sept. 11: The lode in the 36 is now 2 ft. wide, and all of which is saving work for tin, worth 91, per fm. The pitch in the back of the 28, west from the engine-shaft, is worth 41, per fm. The pitch in the back of the 8, west from the engine-shaft, is worth 41, per fm. The pitch in the back of the 18, west from the back of the 36 is north

sold and that remaining on the floors will bear us out.

VALE OF TOWY.—S. Harper, T. Harvey, Sept. 15: In sinking Clay's engine-shaft under the 50, the ground continues much the same as last reported. In the 50, north of Clay's engine shaft, the lode is 3 ft. wide, yielding 10 ewts. of lead per fm. In the 50, south of the said shaft, the lode is 3 ft. wide, composed of barytes, kilias, and spar, mixed with a small quantity of lead, but net sufficient to value. In the 40, north of Bonville's shaft, the lode is 3 ft. wide, composed of barytes and lead, yielding 5 owts. of the latter per fm. In the winze sinking under the 40, south of Bonville's shaft, the lode is 2½ ft. wide, yielding 7 owts. of lead per fm. In the winze sinking under the sail elvel, north of Field's shaft, the lode is 2½ ft. wide—poor. In the 40, south of said shaft, the lode is 1½ ft. wide, composed of barytes, and a small quantity of lead, but not sufficient to value. In the winze sinking under the 20, north of Bonville's shaft, the lode is 1½ ft. wide, producing 6 ewts. of lead per fm. In the winze sinking under the 10, north of said shaft, the lode is 2 ft. wide, yielding 5 owts. of lead per fm. From presant appearances we may expect a fair quantity of lead for the ensuing month.

WEST ALPRED CONSOLS.—S. Leav. B. Stovens. Sent. 15: The ground in the

load for the ensuing month.

WEST ALPRED CONSOLS.—S. Lean, R. Stevens, Sept. 15: The ground in the 95, east of flat-rod shaft, is harder for driving than when last reported on. The lode in the 85 east is 1 ft. wide, composed of spar and stones of ore; the lode in the rise in the back of this level is more to the lode in the rise in the back of this level is more promising for ore, and letting out much water, this waregard as a favorable indication for copper. The stopes in the bottom of the 75, east of flat-rod shaft, are worth 20. per fm. 7 we have let down the water sufficiently low for sink a winze, which we shall do without delay. The lode in the 65, west of No. 1 winze, is small, and the ground hard; the winze sinking below this level has been communicated to the 75 since our last report; and we have set a plich in the eastern end of the said winze to four men, at a tribute of 10s. In 20s. The lode in the 85, west of engine-shaft, is 18 in. wide, and of a most promising character.

CHEMICAL GLEANINGS -No. IV.

WEST BASSET.—W. Eoberts, Sept. 15: On engine lode, in the 75 west, the lode is 4 ft. wide, kindly with stones of ore. In the 65 west the lode is 2 ft. wide, producing 3 tons of ore per fm. The 52 west produces 4 tons per fm.; lode 1 ft. wide.

The 42 west is without alteration; lode 3 ft. wide, with oceasions stones of ore.

Caunter Lode: In the 94 east the lode is 2 ft. wide; worth I ton per fm. The 75 east produces 1 ton per fm.

WEST CRINNIS AND WHEAL REGENT UNITED.—J. Webb, Sept. 16: The shaftmen are employed in getting the kibble to the 40 fm. level; we have a pretty deal of work before we can operate on the lodes in that level. In the 20 fm, level we have a good prospect on Bell's lode: Kemp's lode also is likely to turn out much ore when we have oleared sandsy levels and wingses; at present we cannot work many places for want of air. We have cleared Rowo's shaft to the 20 fm. level; we shall be able to set many pitches here when the old levels are cleared, and ladder road, &c., fixed. We have several tribute pitches throughout the mine, and shall now have regular sales. We shall sample, on Monday next, computed, 30 tons.

WEST NANT-Y-MWYM.—Capt. John Thomas, Sept. 17: We have out through the lode in the cross-cut, which is 6 ft. wide, but is unproductive and not to value for lead. I have put two men to search on the old levels for the shaft which is known to have been sunk near this spot, but filled in sany years ago, and from which there can be no doubt all the rich lead on surface must have come.

WEST ROSEWARNE.—Wm. Richards, Sept. 11: We have set the following bargains:—Eight men sinking the engine.—Shaft helow the 40, which is down 3 fms., the ground a little better: 28% instead of 30%, per fm. Four men driving the 30 west, on the north lode, at 30.5 s. per fms.; lode 18 in. to 2 ft. wide, with occasional stones of ore. Four men driving the 30 cast, lode 3 ft. wide, with west little ore; I expect in driving the lovel as of 10 fms, further east the north and south lodes will intersect each other, and

stope in back of the 20 cast, below adit, is 4 ft. wide, yielding moderate stumps work for tim. No other alteration to notice.

WHRAL GRENVILLE.—G. R. Odgers, Sept. 12: We have not taken down the lode in the engine-shaft, ainting below the 54, this week, but as far as I can judge it maintains its size. The lode in the 55, cast of the shaft, is about 18 in. wide, composed of gossan, peach, and quarts, a very promising looking lode. In the western ead, same level, the lode is in two branches, with a horse of granite 14 in. wide between them, which will shortly wear out. The south part is from 12 to 14 in. wide, with a good branch of ore in the back, but downward the lode is principally sugary spar and prian, and I see but very little traces of iron in it. The north branch is about 6 or 7 in. wide, composed of ore and mundic, imbedded in the grossan. Altogether, I think our prospects in this level are looking healthy, and improving. Since we have hold the winse with the borer, the men are making good progress in knocking it through.

WHEAL GUSKUS.—J. Dale, Sept. 12: The water is now only drained from the 60, consequently there will be a saving in the expense of coal, &c. The tributers are making fair wages. The 30 still looks promising, and is laying open some valuable ground. You will find that the present mode of working has considerably reduced the expenditure; and judging from present prospects the returns will soon increase, in addition to tin and copper, we shall have some tons of lead ore for the market in the curse of a month or two.

— James Richards, Sept. 15: The stopes in the back of the 30, on the new lode, is worth 51, per fan. for lead and copper. The shaft on the new lode would by this time have been sunk 6 fms., and collared up, but the weather having been so close, and the air poor, it will take three or four days yet to pump sufficient air into it. All other places without alteration since last report. We are preparing a small parcel of copper or for sampling on the 22d inst.

WHEAL HARRIETT.—S.

copper ore for sampling on the 22d inst.

WHEAL HARRIETT.—S. Williams, Sept. 12: The lode in the 90 fm. level, east from engine-shaft, is 1 ft. wide, producing stones of tin and copper ore. The lode in the rise in the back of the 90 is worth for copper ore 20t, per fm. The lode in the winze sinking below the 74 is producing 1 ton of copper ore per fm., and it has a promising appearance of further improvement. The lode in the 74 end is about 1 ft. wide, producing stones of copper ore. The lode on the 53 east end is small. The lode in the deep adit end, east from Bate's shaft, is 6 in. wide, producing occasionally stones of copper ore.

iode in the deep adit end, east from Bate's shaft, is 6 in. wide, producing occasionally stones of copper ore.

WHEAL HENRY (Helveilyn).—J. Muse, J. Gledhill, Sept. 16: In the end of the lower level there is lead and copper, which appears to be near the cross-course seen at surface. At 100 ms. above (which is cropping out to the day, from which we broke similar stones of ore), there is also a cross-course east and west, containing lead, quarts, and barytes, of the same nature as the stones broken from the present higher level, which is 40 fms. above the long level: 7 fms. above (to 47 and 50 fms.) we broke fine stones of lead, quarts, and barytes, samples of which we sent to the office at Leeds. In various places, for 60 fms. above this, stones of ore of the same nature have been broken, cropping out to the surface. We have put men to sink the sump in the level, to keep it going night and day, to prove the ore in the bottom, from whence we had the solid ore.

WHEAL KITTY (84 Arges).—W. Thomas. Sept. 12: Engine sheft: In the 82.

whence we had the solid ore.

WHEAL KITTY (8t. Agnes).—W. Thomas, Sept. 12: Engine-shaft: In the 82, driving west, we cannot say the real value of the lode; it will take another week or fortnight to ascertain it. The stopes east of shaft are much the same, worth 12t. per fm. In the 72, driving west, the lode is 3 fet. wide, worth 25t. per fm. In the 72, driving east, the lode is 18 in. wide, worth 20t. per fm. In the middle level, driving east of Sunny Corner shaft, the lode is 2 feet wide, worth 8t. per fm.—Holgate's Shaft: In the 75 cross-cut we have cut the lode, and as far as we can see it is worth full 40t. per fm.; we have not seen any of the south walt. In the 65 west the lode is 3 feet wide, worth for tin and copper 20t. per fm. In the 54, driving west of cross-course, the lode is 18 in. wide, worth 12t. per fm. Our tribute stopes are looking much the same as for some time past.

lode is 18 in. wide, worth 12I. per fm. Our tribute stopes are looking much the same as for some time past.

WHEAL MAUDLIN.—W. Tregay, Sept. 14: There is nothing new to report from the adit level. Some rain having failen, the wheel has been put to work again to pump, but whether the supply of top water will continue so early is questionable.

WHEAL TEHIDY.—D. Lanksbury, Sept. 16: Last Friday being our monthly tutwork-setting, we band you the following:—In the 90, driving west of Diagonal shaft, the lode is 2 ft. wide, containing spar, with stones of ore; set to six men, at 12I. per fm. In the 60, in the atopse east and weat of the winze, the lode will produce 1½ ton of ore per fm.; set to four men, at 3I, per fm. In the winze sinking under the 50, west of Diagonal shaft, on the north lode, the lode is worth 1½, ton of ore per fm.; set to four men, at 3I, per fm. In the sinze sinking under the 50, west of Diagonal shaft, on the north lode, the lode is worth 1½, ton of ore per fm.; six to four men, at 3I, per fm. In the rise above the 50, on the north lode, the lode is 2 ft. wide, with spar and capel; set to two men, at 6I, per fm. In diriving the 40, cast of the western shaft, we have intersected the cross-course. We shall give you more information about it in our next report; set to four men, at 3I, 10s, per fm. In the 90, at the caunter, the lode is went, at 7I, per fm. In the vinze sinking below the 50, on the caunter, the lode is went, on of ore per fm.; set to four men, at 6I, per fm. in the 50 driving east on the caunter, the lode is went, on of ore per fm.; set to four men, at 6I, per fm.

In the 50 driving east on the caunter, the lode is worth, it on of ore per fm.; set to four men, at 6I, per fm.

In the 50 driving east on the caunter, the lode is emplayed to one of ore; set to six men, at 7I, per fm. In the vinze sinking under the sole and the supplementary of the per fm. In the 90, the per fm. We hope in about a week or two to bring the lodestiff to surface, and then ascertain its value.

WHEAL TRELA

in each end, at 91, per fm. We hope in about a week or two to bring the lodestiff to surface, and then ascertain its value.

WHEAL TRELAWNY.—Wm. Jenkin, Wm. Bryant, Sept. 17: Smith's chaftmen are engaged in dividing and casing the chaft from the 132 to the 142. The lode in the 132 north is 2 ft. wide, worth 101, per fm.; in the same level south it is 1\% ft. wide, worth 109, per fm. In the 120, north of Chippendale's chaft, it is 2 feet wide, worth 109, per fm. In the 180 north it is 2 ft. wide, worth 121, per fm. In the 180 north it is 1\% ft. wide, worth 121, per fm. In the 180 north it is 1\% ft. wide, worth 171, per fm.—South Mine: In the 142, south of Trelawny's shaft, the lode is 3 ft. wide, worth 141, per fm. The stopes and pitches are producing a fair quantity of ore.

WHEAL UNITY.—J. Vivian, Sept. 14: The flat-rod shaft is sunk about 6 ft. under the 30 fm. level, where the lode is 2 ft. wide, producing a little copper ore. The lode in the 30, west of flat-rod shaft, is 2 ft. wide, and improved in appearance, worth about 81, per fm. The lode in the rise in the same level, cast of No. 1 shaft, is 1\% ft. wide, and opening tribute ground. The lode in the 19 cast is 2 ft. wide, rather discretered in appearance, and producing a little copper ore. The lode in the Maria is 2 ft. wide, producing a little copper ore. The lode in the 10 cast is 1\% ft. wide, producing a little copper ore. The lode in the 10 cast is 1\% ft. wide, producing a little copper ore. The lode in the 10 cast is 1\% ft. wide, wide, composed of goessan, spar, and a little copper ore.

WHEAL VENTON.—T. Richards, Sept. 14: Good progress is being made in the

wide, composed of gossas, spar, and a little copper ore.

WHEAL VENTON.—T. Richards, Sept. 14: Good progress is being made in the cross-out at this mine; about 6 feet per week is being driven, and the water continues to increase, and the ground gradually improving.

WHEAL ZION.—J. T. Phillips, Sept. 16: The 50 west, on the north lode, is still opening ground that will pay for working at a moderate tribute. The main lode in the 80 west is 2 feet wide, principally composed of spar and mundle. In the 55 cast the lode is composed of peach, mundle, and occasional stones of copper ore. In the 50 cast the lode is from 4 to 6 feet wide, with more capels than we have usually had, and at times spots of copper ore. In the glebe adit the ground is a little more compact, consequently not so speeds for driving.

WHITCHURCH DOWN CONSOLS.—H. Hill. Sant. 12. We have

and at times spots of copper ore. In the glebe sdit the ground is a little more compact, consequently not so spendy for driving.

WHITCHURCH DOWN CONSOLS.—H. Hill, Sept. 17: We have commenced sinking a trial shaft on the newly-discovered lode, now-down about 2% fms. from surface, and are earrying down about 3 ft. of the north part of the lode as we sink, and intend to cut through it at 4 or 5 fms. deep; its size is from 7 to 8 ft. wide, underlying north about 5 feet in the fathom, carrying eplendid stones of gossan, prian, quarte, and spots of black copper ore. Several practical mine agents have inspected it, and confess it to be a very fine lode, with every appearance of a course of copper ore at a shallow depth. We have sommenced costoaning further east, and hope soon to cut it again. WILLOW BANK.—J. Sanders, Sept. 14: In consequence of the dry weather and the water being exhausted in the ponds we have not had sufficient water for the engine within the past fortnight to keep the mine in forts, by which reason our progress has been slow in the 30. We have drives about 1 fm. east ind west from shaft, where the lode is from 3 ft. to 4 ft. wite, composed of spar and light elay-state, with occasional spots of copper ore in it, but unproductive for lead at present. In the 17 west like lode is of a more attitled character than it has been for some time past, which, if it continue, I expect to hole to the boundary-shaft in four or five weeks from this time. We are getting things ready to resume sinking the boundary-shaft, which will be as soon as we can fix the lift and get sufficient water for the engine to fock the water out of the shaft.

LIBERTY MINISC COMPANY OF VIRGINIA.—Mr. Conquest, the resistent managing director of this mine, has arrived in England, and brought with him a bar of gold weighing 61 ozs. 8 dwts., the result of 26 days working; the shareholders will, upon an early day, be called upon to hear Mr. Conquest's opinion upon the present state and future prospects of the mine, and likewise to receive from him the result of some valuable experiments which have been made by him on the sulphurete and sande.

808

CHEMICAL GLEANINGS .- No. IV. HARD V. TUSON, P.C.S., P.S.A.

NEW METHOD OF PREPARING CRYSTALLISED SILICIUM.—Prof. Wöhler formerly described a process for the preparation of crystallised silicium which consisted in fusing aluminium with from 20 to 40 times its weight of fluo-silicate of soda at a bright red heat. The same chemist has since found that the latter salt may be dispensed with, and its todious preparation avoided by fusing the aluminium in a Hessian crucible, with  $\delta$  times tion avoided by fusing the aluminium in a Hessian crucible, with 5 times its weight of soluble glass, and 10 times its weight of cryolite, and kooping the mass in a fluid state for half-an-hour. For this purpose he uses the beautiful soluble glass from the factory of M. Kulhmann, of Lille. The glass is powdered, and mixed with the cryolite, also powdered; the crucible is half filled with the mixture, a piece of aluminium is laid upon it, and this is covered with the other half of the mixture. In this manner dark, iron-black reguli are obtained, perfectly saturated with silicium; their surface is usually covered with shining three and six-sided plates of silicium. It is remarkable that the masses of aluminium containing silicium are not again fusible at the temporature at which they were produced. A globule of this kind may be heated to redness for a long time, without undergoing fusion or oxidation. If, while red hot, it be thrown into cold water, about half the volume of aluminium which the mass contains flows out as a coherent mass, which remains red hot for about a minute under the water; the silicium remains, however, in the form of a ragged, crystalline, porous globule. When preparing silicium by this process it is, therefore, better to submit the regulus to the above treatment before acting on it with hydrochloric soid, as by this means much aluminium is saved, which may be employed in subsequent operations.

On the Reduction of Certain Saline Solutions at Aluminium.—

On the Reduction of Centain Saline Solutions by Aluminium.

M. H. Masson, like M. H. Doville, believes that aluminium, in virtue of its properties, should be classed with iron and chromium. He has observed the reducing action of aluminium in certain saline solutions, more particularly cularly, however, in those of nitrate of silver, nitrate of protoxide of mercury, protochloride and cyanide of mercury, chloride of tin, acetate of lead, and various saits of copper. These saits are nearly all reduced by

New Method of Splitting Rocks.—A patent has been taken out for splitting rocks by heat without explosion. The mixture used for the purpose is said to be composed of 100 parts sulphur, 100 saltpetre, 50 sawdust, 50 horse manure, and 10 common salt. The saltpetre and common salt are dissolved in hot water, and mixed with molasses. The other ingredients are then added, the whole stirred until thoroughly incorporated, and the mass thus produced rendered fit for use by being dried at a gentle heat. The composition, prepared in this manner, is introduced into holes bored in the rock in the same way as blasting powder, and is ignited by means of a fuse. It does not explode like gunpowder, but generates heat of sufficient intensity to split the rock.

STEAM-GAUGES.—During this week a cause has been tried at the Town Hall, Bolton, which is likely to create as large amount of discussion in scientific circles as took place upon the question, What is a water-gauge? The query now will be, What is a steam-gauge? The Government Inspector of Coal Mines for this district (Mr. Dickinson) charged Mr. Hardcastle, of Breightment Colliery, with infringement of the aventh general rule of the Act, having falled to provide a proper steam-gauge to a boiler at one of the pits. Mr. Hardcastle used, as he had done for some years, a "Salter's spring balance" and a safety-valve as a substitute for a gauge, and declined to adopt any other indicator. On the part of the procention, it was argued that no instrument could be considered a proper gauge unless the engineer could at all times assertain, by looking at it, whether there was too much or too little steam in the boiler. He (Mr. Dickinson) did not make a point of recommending any particular gauge, leaving that to the selection of the proprietors, but, in his opinion, the open top mercurial gauge was the best. The magistrate said that the real question was, whether "Salter's spring balance" measured the steam at every stage? If it did, he should say it was a proper gauge; if it did not, he should think it was not. Mr. Dickinson said it was neither more nor less than a steam-valve. Mr. Jackson, civil engineer and surveyor, was called by Mr. Hardcastle to prove that the gauge was a proper one; but his evidence completely supported Mr. Dickinson's views, he having shown that the engineer could not tell by it when the steam was at blowing-off point without using mechanical means. The magistrates, after having retired to consider their decision, said they were of opinion that it was not a groper gauge, but as it appeared that Mr. Hardcastle did not wilfully act in opposition to the law, they should impose only the mitigated penalty of 11. and costs. STEAM-GAUGES.—During this week a cause has been tried at the Town

BOILER EXPLOSION AT BEVERLY,—A fearful explosion took place at Mr. Rooke's Beck Side Mill. It was formerly worked by wind and water, and latterly steam has been added, whereby the engine driver, who was standing near the boiler, was so seriously injured that he died 20 minutes after the accident occurred. Mr. Welburn, the mill wright who erected the boiler and engine, gave evidence as to the boiler being made of the best iron, and in proper condition, and that the sole cause of the accident was the deceased neglecting to keep the boilers supplied with sufficient water. This evidence was supported by Messrs. W. and J. Crosskiil, and J. Pattsrson. The deceased left a widow and children. An inquest has been held, and a verdict of accidental death was returned.

BOILER EXPLOSION AT THE BRADFORD IRONWORES, NEAR MANCHESTER.
—Yesterday morning a serious boiler explosion occurred at Mesars. Johnson and Co's. ironworks at Bradford, near Manchester. The boiler was one of the largest in the works, being 22 ft. in length and 5 ft. in diameter, with a fine 2 ft. 9 in. in dismeter. It was mainly used as an assistant boiler to the others, numbering 15, that are in these extensive works, and at the time of the accident the engineer, Joseph Cash, was fring up, and was blown some 20 ynris down the shed. The poor fellow is very seriously injured, his legs, body, and face being dreadfully scalded and burnt. David Gregoon, who was the time near to Cash, is also very seriously injured, having got a wound in the head and much scalded and burned. A boy named Hayes has also received injuries, his lead, face, body, and legs were very much scalded and burned. Richard Fellowes is also scalded and burned, but not so seriously as Cash, Gregoon, and Hayes. These four were at once conveyed to the Royal Infirmary, where the three last named lie in a very precarious state. Other persons were injured by the explosion, but not seriously. Gash is said to have since died. BOILER EXPLOSION AT THE BRADFORD IRONWORKS, NEAR MANCHESTER

where the three last named lie in a very precarious stare. Other persons were injured by the explosion, but not seriously. Cash is eaki to have since died.

INDIA.—The deep interest with which every information concerning our Indian Empire is at this moment received by the British public, has induced a crowd of writers, on all possible varieties of detail, to seek the aid of the press in disseminating their notious of how things are, or should be, in India. With much that was very familiar to us, we now learn much that is new, or which, at all events, has hitherto been known imperfectly. We may hope at least that from the dreadful doing, the reports of which have arossed the country from end to end to an unanimous feeling at once of deep sympathy and retributive determination, a better and happier state of things may spring, as affecting both the governors and the governed—that "from the nettle danger," which has so acutely stung, we may pluck, the flower of future asfety. Nothing will contribute more to this desirable end than an accurate and resources, is indifferently known to the great bulk of even the best informed amongst us; and based upon this knowledge, the appliance of the best means of communication between the most important points, for the more speedy transport of the products of the country, and of such military forces as may for nous time be required. The insalubrity of the presidential cities and chief casts of commerce for Europeans has operated strongly against the extension of the English race in India, and increases the difficulties incident to proper government. In the hill towns, however, the Europeans will find a climate more healthy and congenial, if possible, than that at home, to which ready access only is required to effect a rapid change in the numbers and condition of our countrymen in India. Mr. Hyde Clarke, who for many years has directed his attention to the improvement of the means of communication in India, has published a very interesting, instructive, and saggestire work, on heme with which the author is identified, but an interesting description of the hill stricts, and a lucid exposition of the practical application of the hill railway system, the colonization and defence of India.

At the Truro County County Court an action for 281, was brought by Mr. Manley, of Chacewater, against Mr. R. Greenwood, of Truro, purser of South Ellen Mine, for using his patent invention for ventilating the bottom level of that mine. Mr. Stokes, on behalf of Mr. Greenwood, stated he could prove, by mining agents, that this mode of ventilation had been in use for the last 30 years, and was now common in many Cornish mines. No specification was in Court to prove Mr. Manley's case, and he was, therefore, nonsuited, and ordered to pay the costs of deformantly witnesses.

Manley states.

Mine Accidents.—At Pedn-an-drea Mine, while Wm. Harris, a miner, was at work under an arch, the span gave way, and buried him in the debris, and before some workmen close at hand could extrate him, which took about ten minutes, life was found to be extinct.—At North Rosker, on Sept. 10, a fall of roof occurred whits two men, R. Mishell and T. Uren, were repairing the adit. Uren was completely buried, and his body was not recovered until the next morning; it is supposed his death was instantaneous. Michell's legs only were caught, and after remaining until their families got alarmed and went in search for them, he was rescued (four hours after he was discovered, and 12 hours after the socident) with only

SOUTH LADY BERTHA.—The lode in the adit varies in size from 2 to h., with good indications. Judging from appearances, this mine must be shortly sught into a predicable state of working.

# Che Mining Market; Prices of Metals, Ores, &c.

ditio tubes	PORRION STREE, POR TON. In kegs 22 0 0- urive 21 10 0-21 15 0 faggots 23 0 0- Spring 18 0 0-33 0 0  VER
Hoops   ditto   10 7 6-11 0 0   Ditto, fate   12 0 -1 1 0 0     Pig. No. 1, in Wales   4 10 0 -5 0 0     Pig. No. 1, in Wales   5 10 0 -5 10 0     Bara, common, ditto   7 7 6 - 7 10 0     Bara, common, ditto   7 7 6 - 7 10 0     Bara, common, ditto   7 7 6 - 7 10 0     Bara, common, ditto   7 7 6 - 7 10 0     Pig. No. 1, in Clyde   3 9 0 - 3 9 6     Ditto, in Tyne and Tees   3 11 0 - 3 15 0     Ditto, in Tyne and Tees   3 11 0 - 3 15 0     Ditto, in Tyne and Tees   3 10 0 - 2     Ditto, forge   23 10 0 - 2     Bara   24 15 0 - 5 0 0     Ditto patent abot   27 0 0 - 7 10 0     Spanish, in bond   23 10 0 -23 15 0     Ditto patent abot   27 0 0 -7 10 0     Spanish, in bond   23 10 0 -23 15 0     Ditto patent abot   27 0 0 -7 10 0     Spanish, in bond   23 10 0 -23 15 0     Ditto patent abot   27 0 0 -7 10 0     Spanish, in bond   23 10 0 -23 15 0     Ditto patent abot   27 0 0 -7 10 0     Spanish, in bond   23 10 0 -23 15 0     Ditto patent abot   27 0 0 -7 10 0     Spanish, in bond   23 10 0 -23 15 0     Ditto patent abot   27 0 0 -7 10 0     Spanish, in bond   23 10 0 -23 15 0     Ditto patent abot   27 0 0 -7 10 0     Spanish, in bond   23 10 0 -23 15 0     Ditto patent abot   27 0 0 -7 10 0     Ditto pate	TING.  140 0 0
* At the works, is. to is. 6d. p	er box less.

REMARKS.—The tone of the market for the most part has been steady. The prices of some metals have slightly improved, at the same time a few others have exhibited a declining tendency.

The prices of some metals have slightly improved, at the same time a few others have exhibited a declining tendency.

COPPER.—The enquiries for tough cake and ingot have imparted much firmness in current rates; those qualities are very difficult to meet with, especially at fixed prices, and also the demand for manufactured has been, on the whole, satisfactory. The general opinion that prevails in infavour of an upward movement, and dealers generally think it not at all unlikely that before many days a further rise will be established by the smelters.

IRON.—A steady but very quiet business continues to be transacted in most descriptions. Rails, bars, hoops, sheet, and nail rods are in moderate request, and seem just sufficient to enable ironmasters to maintain present quotations. The trade, however, is by no means brisk. Scotch pig-iron has fluctuated in price about 2s. per ton: after receding to 66s. to 67s., the price advanced to 68s. 6d. to 69s., since which a slight giving way way erceptible, and 68s. has been accepted for mixed numbers, eash in 14 days. There are, perhaps, one or two speculators who might yet operate on some terms, but sellers require cash in a less number of days. The market closes here at 68s. 6d., mixed numbers, g.m.b., f.o.b. in Glasgow. Lead.—The market is not quite so firm, and good soft English pig is procurable at 6s. per ton reduction—viz., 234. 10s.

SPELTER.—Advices from Hamburgh rather indicate a weaker market, sellers offering this metal freely for delivery here, ex ship, at 304. 16s.

Tin.—No change to note in English qualities; foreign, although reduced in value, has to-day rather differed, and a few transactions are reported in Straits at 1354. to 1364. Nething now offering under 1364.

Tin.-Plants are in less request; prices quoted as before.

Liverpoor, Sept. 17.—There is no alteration in the position of our

LIVERPOOL, SEPT. 17.—There is no alteration in the position of our market for manufactured Iron since the date of our last report. The same steady demand as then mentioned still exists for both Welsh and Staffordshire qualities, and the general aspect of the trade is encouraging, as current quotations are maintained without difficulty. Some little improvement has taken place in Scotch Pig-iron, consequent upon purchases to a considerable extent having been made for actual consumption, together with some little business on open time for speculation; the price may be said to be 1s. 6d. to 2s. per ton above the quotation of this day week, at which advance the market closes quietly to-day. The ahipments for the week are large, being 12,119 tons, against 10,964 tons in the corresponding week of last year. The enquiry for English Tin continues to be good, and current rates are readily obtainable. Tin-plates are to be purchased on terms favourable to the buyer, although the decline in price as yet is but trifling. Copper is in good request, at full prices. Lead is quiet. The following are the quotations:—Iron: Merchant bar, 7l. 15s. to 8l. 6s. per ton.—Tin: Common block, 140l. per ton; common bar, 141l.; refined block, 144l.—Tin-plates: Charcoal, 1C, 38s. to 39s. per box; coke, 1C, 33s. to 34s.—Lead: English sheet, 26l. per ton; English pig, 24l.—Copper: Cake and tile, 12ll. 10s. per ton; best selected, 124l. 10s.; sheathing and bolt, 1s. 1½d. per the.—Yeel: Blistered, 30l. to 40l. per ton; spring, 20l. to 24l.; cast and shear, 50l. to 60l. per ton.

GLASGOW, SEPT. 17.—There was considerable animation in our market in the beginning of this week, and the price of warrants advanced to 69s.; from this, however, there was a speedy reaction to 68s., at which we now remain steady. There is an improved continental demand at present, in consequence of the opening up of the river navigation. Makers' iron, g.m.b., mixed numbers, is obtainable at 67s. 6d. cash, against bill of lading, either for immediate or for forward delivery. No. 1, Gartsherrie, 77s.

MINES.-Throughout the week, although no unusual amount of busisess has been transacted, a steady demand has existed for shares in se reral mines, at advanced prices, and we are glad to be able to report upon the healthy appearance of the market generally, notwithstanding the unexpected blow to many English capitalists through the heavy fall in American securities, and the Indian news received late in the week. As we have often said, so long as metals keep up (and there is every reason we have often said, so long as metals keep up (and there is every reason to believe they will do so), dividend mines will be the favourite means of investment. East Basset shares have been mostly in demand, and the price has risen from 50, 52 to 60, 65; the 60 east, on the south copper lode, has improved, said to be worth 2 tons per fm., and the tin lode still slooking well; we first called particular attention to these shares when at less than half the present price—40l. per 256th (now 512ths). Hingston Down shares have been again in request, and the price advanced to \$\delta\_2\$; 6; South Frances have been more in demand, at 240; Basset, 220 to 230; South Caradon flatter, at 340 to 346; Par Consols, 20 to 21; Tincroft, \$\delta\_2\$ to \$\delta\_2\$; Wheal Margaret better, at 68 to 69; Lady Bertha, \$\delta\_1\$; Wheal Wrey, \$\delta\_2\$; West Caradon, 120 to 126; East Russell, \$\delta\_2\$ to \$\delta\_2\$; East Alfred remain about \$4\ddot\delta\_2\$ to \$\delta\_3\$, and left off in demand; Ludcott, \$\delta\_2\$ to \$\delta\_2\$; North Roskear, 160 to 170; North Crofty have not maintained the high quotations, and leave off at 5 to \$\delta\_2\$; Llandudno is looking better, and shares are at \$\delta\_2\$ to 1, buyers; Stray Park, 6. Wheal Margery, 11 to 12; the mine is said to be looking better in American shaft. North Basset keep quiet, at 14 to 15, but rather more enquired for; in West Basset, very little doing, at 26 to 27; Tehidy, 2 to 2\ddot\delta\_2\$. Mary Ann, 47, ex div.; at the meeting, on Tuesday, the accounts showed a profit on the quarter of 2769l. 11s. 8d., and a dividend of 2304l. (2l, 5s. per share) was declared, leaving a balance to the credit of next account of 2002l. 15s. 5d.; the mine looks well; the lode in the bottom level north (the 140) is worth 26l. per fm., and south 20l. per fm., being the richest level in the mine. Wheal Breley 0to 3310; Wheal Trelawny 22 to 23: United Mines are to believe they will do so), dividend mines will be the favourite means of the mine looks well; the lode in the bottom level north (the 140) is worth 25l. per fm., and south 20l. per fm., being the richest level in the mine. Wheal Buller, 290 to 310; Wheal Trelawny, 22 to 23; United Mines are considerably improved, but quotations remain about the same, at 150; Wheal Kitty, 22 to 23, ex div. of 1l. per share; South Carn Brea, 6½ to 7, and have been more looked after, but fow sellers; Devon Great Consols, 460 to 470; East Tolgus, 55 to 60; Camborne Vean, 6 to 6½. Herodsfoot, 8 to 8½, not quite so firm; the mine has just sold 80 tons of lead ore, at 17l. 9s. per ton, realising 10s. per ton more than the 80 tons sold in July last, showing that the lead market is better, or the ore of superior quality. Castell, ½; the crusher, we understand, was to go to work this week, and would crush 40 tons of blende per week, sufficient to yield a small profit until the mine is opened out for lead. Great Alfred, 6½ to 6½; Drake Walls, 2½ to 2½; St. Day United, 1½ to 1½, and in moderate demand; Vale of Towy, ½ to 1; West Seton, 330 to 340, in demand, but

no sellers; North Frances have advanced to 13, 13½, Wheal Reeth, 25 to 37½; Boiling Well, 1½ to 1½. Craddock Moor, 43 to 45; this mine has just paid its first dividend, of 5s. per share. Great Hewas, ½ to 1; Pendeon Goasols, 2 to 2½; North Robert, 3½ to 4; Porkellis United, 5½ to 6; West Frances, 17. Wheal Edward shares have steadily advanced during the week, and have resched 10, 10½, being a rise of nearly cent, per cent, in a few weeks; the mine is looking well, and made a profit of 700½, on the quarter; at the next quarterly meeting a dividend is expected. Wheal Arthur, the adjoining mine, has been more enquired after, at 5; shares hitherto at a nominal price. Kelly Bray shares have fluctuated from 1½ to 1½; leaving off firmer, at 1½ to 1½; Holmbush, 2 to 2½; Alfred Consols have been very depressed, and as shares were offered freely the price receded to 11½, 12; sellers, being a fall of 2½, per share during the week.

Mining Exchange Official List of transactions during the week

Mining Exchange Official List of transactions during the week:—

Saverday, Sept. 12.—Alfred Concols, 13½ to 14; East Basset, 50 to 51; East Russell, 2½ to 2½; Lady Bertha, 17s. 64. to 18s. 6d.; Sortridge Concols, 1½ to 2; Wheal Edward, 8½ to 5½;

Mosmory.—Alfred Consols, 13½ to 14; East Basset, 50 to 52; East Russell, 39s. to 41s.; Hingston Down, 4½ to 4½; Lady Bertha, 17s. 6d. to 18s. 6d.; Pendson, 2 to 2½; Sortridge Consols, 1½ to 2; Theoroft, 4½ to 4½; Wheal Arthur, 4½ to 4½; Wheal Arthur, 4½ to 4½; Tuesday.—Alfred Consols, 13½ to 13½; Copper Hill, 131 to 132½; East Alfred, 4 to 4½; East Basset, 50 to 52; Kast Basset, 50 to 75; Creat South Tologa, 16½ to 17; Hingston Down, 4½ to 5; Lady Bertha, 16s. 6d. to 17s. 6d.; Vale of Towy, 16s. to 17s. 6d.; Wheal Arthur, 4½ to 5; Wheal Beward, 5½ to 9; Wheal Grenville, 1½ to 17; Creat South Tologa, 16½ to 17s. 6d.; Wheal Arthur, 4½ to 5; Lady Bertha, 16s. 6d. to 7s. 6d.; Vale of Towy, 16s. to 17s. 6d.; Wheal Consols, 12½ to 13½; Chancellorsville, 4s. 6d. to 8s. 6d.; Hingston Down, 4½ to 5½; Lady Bertha, 18s. to 20s.; Sortridge Consols, 1½ to 2; Theoroft, 4½ to 4%; East Basset, 60 to 55; East Russewarne, 16s. to 17s. 6d.; Parlox.—Alfred Consols, 12½ to 13½; East Alfred, 4½; East Basset, 60 to 55; East Russewarne, 16s. to 17s. 6d.; Parlox.—Alfred Consols, 11½ to 13½; East Alfred, 4½; East Russell, 34s. 6d. to 36s. 6d.; Great Alfred, 6½ to 7; Holmbush, 2 to 3½; Hingston Down, 5½ to 6; Parlox.—Alfred Consols, 11½ to 11½; East Alfred, 4 to 4½; East Russell, 34s. 6d. to 36s. 6d.; Great Alfred, 6½ to 7; Holmbush, 2 to 3½; Hingston Down, 5½ to 6; 5½; Wheal Marlow, 55; to 6; 5½; Wheal Marlow, 55; to 6; 50; The 10%; Sortridge Consols, 2 to 5½; Wheal Marlow, 5½; to 6; Sortridge Consols, 2 to 5½; Wheal Marlow, 5½; to 6; Sortridge Consols, 2 to 5½; Wheal Marlow, 5½; to 6; Sortridge Consols, 2 to 5½; Wheal Marlow, 5½; to 6; Sortridge Consols, 2 to 5½; Wheal Marlow, 5½; to 6; Sortridge Consols, 2 to 5½; Wheal Marlow, 5½; East Russell, 34s. 6d. to 36s. 6d.; Carlow, 52; East Russell,

On the Stock Exchange, the following business has been transacted:—
Saturnar, Sapr. 12.—Lady Berths, &; Sortridge Consols, 1&; Wheal Edward, & to 3\%; St. John del Rey, 10 to 10\%.—Transactions, though not officially marked forth Rockear, 170; East Alfred, 4\%, 4\%; Lady Berths, 14s. 6d.; North Wheal Yorky, 5\%.

North Roskear, 170; East Alfred, 4½, 4½, 4½; Lady Berths, 14s. 6d.; North Wheal Crofty, 3½.

Mownar.—Par Consols, 20½; Sortridge Consols, 1½; South Carn Brea, 5½; Wheal Edward, 3½; United Mexican, 3½.—Transactions, though not officially marked: North Wheal Crofty, 5½; to 5½; St. Day United, 26s. to 27s.; Wheal Edward, 5½ to 1½; East Alfred, 5½.

TUERDAY.—East Basset, 52; United Mines, 140.—Transactions, though not officially marked: Wheal Edward, 5½; Sortridge Consols, 2; Hingston Down, 5; East Alfred, 5½ to 4½; United Mines, 140.—Transactions, though not officially marked: Sortridge Consols, 2; East Alfred, 4½; Treweths, 16s., ½.

WEDDYSDAY.—Wheal Edward, 9¾; United Mexican, 3¾.—Transactions, though not officially marked: Sortridge Consols, 2; East Basset, 53; Hingston Down, 5.

THURBDAY.—Alfred Consols, 13½; Sortridge Consols, 2 to 1½; Wheal Edward, 10; Imperial Brazilian, 2; Dun Mountain, 1½; Marquits, ½.—Transactions, though not officially marked; Wheal Edward, 9¾ to 10½; East Basset, 60.

FEIDAY.—Alfred Consols, 13½, 12½, 13; Sortridge Consols, 2 to 3½; Fortuns, 1½.

At Truro Ticketing, on Thursday, 4530 tons of ore were sold, realising 28,0671.7s. The particulars of the sale were—Average standard, 1491.4s.; average produce, 6; average price, 61.4s.; quantity of fine copper, 271 tons 11 cwts. The sale at Truro, on Thursday, will be 2533 tons.

At Swansea, on Tuesday, 1614 tons of copper ore will be sold, including cubs, Santiago, Sydney, Adelaide, Berchaven, Spanish, Chili, Namsqua, Bampfylde, Burra Burra, and Namsqualand.

The arrivals at Swansea include—From Caldera, 530 tons copper ore, 35 tons copper regulus, and 7262 bags of ailver ores.

At Wheal Buller meeting, on Tuesday, the accounts showed—Balance last audit, 16891, 7s. 7d.; ores sold (less dues), 55821. 3s. 11d.=12711. 11s. 6d.—Mins costs and merchants' bills, June and July, 34311. 11s. 10d.: leaving balance in favour of adventurers, 38391. 19s. 5d. A dividend of 19201. (7l. 10s. per share) was declared, and 19191. 19s. 3d. carried to next account.

and 1919. 19s. 8d. carried to next account.

At Wheal Mary Ann meeting, on Tuesday (Mr. Thomas Kittow in the chair), the accounts showed—Balance from last audit, 1644. 18s. 4d.; ores sold, 7931. 4s. 10d.—95761. 3a. 3d.—Mine cost, merchants bills, and sundries, April, Mar, and June, 51611. 18s. 2d.: leaving balance in favour of company, 4414. 10s. The profit on the three months' working was 27691. 11s. 8d. A dividend of 23041. (2t. 5s. per share) was declared, the balance for new boiler and outfit (1071. 14s. 7d.) paid, and 20021. 13s. 5d. carried to the eredit of next account. Capt. Peter Clymo, Henry Hodge, and Robert Knapp reported that, although they had an increased balance in hand, they did not think it would be prudent at present to increase the dividend, as there were itsms of expenditure which would have to be made,

At Craddock Moor Mine meeting, on Sept. 11, the accounts showed Baiance last audit, 7031. 10s. 3d.; orcs rold, 17181. 12s. 5d.; carriage, 441. 6s. 6c 24461. 9s. 2d.—Labour cost, 9661. 6s. 10d.; merebants bills, 3941. 19s. 3d.; lord's dill. 111. 6s. 2d.: leaving balance in favour of mine, 9931. [6s. 11d. A dividend (the for 2631. 15s. (5s. per share) was declared, and 7307. 1s. 11d. carried to next accordant. Henry Taylor reported that their next sampling would be 188 tons of good; lity copper ore.

At St. Day United Mines meeting, on Monday, the accounts showed— Balance last audit, 18781. 5s. 3d.; ores sold, 97831. 5s.=11,6611. 10s. 3d.—Mine costs and merchants' bills, Jan., Feb., March, and April, 87821. 8s.: leaving balance in fa-vour of mine, 28791. 2s. 3d. A dividend of 10001. (1s. per share) was declared, and 18791. 2s. 3d. carried to next account.

At the Great Wheal Vor United Mining Company meeting, on Wednesday (Mr. Vansittart Neale in the chair), the accounts aboved a balance in hand of 1853, 124, 3d. A call of 125, 6d. per share was made. The committee and auditors were re-elected, and the proceedings, which are fully reported in another column, terminated with a vote of thanks to the Chairman, directors, and manager.

minated with a vote of thanks to the Chairman, directors, and manager.

At Gonamena Mine meeting, on Sept. 10, the accounts showed—Balance last andit, 551, 9s. 2d.; ores sold (deducting 50f. 9s. 6d. lord's dues), 12987. 11s. 10d. = 12547. 1s.—Labour cost, 9734. 4s. 1d.; materials, 2711. 14s. 2d.: leaving balance in seven or mine, 201. 2s. 3d. Capt. R. Pascoe and Wm. George, jun., reported that on Gilpin's lode the 90 had been driven about 7 mas, without any alteration worthy of notice. On ascertaining that the 38 east, on that lode, had been driven by the West Caradon adventurers to their boundary, they continued driving, and knowing that there was a good shoot of ore gone down in the level above, they anticipated good returns, as the lode is 1 foot wide, producing good saving work. They sampled, on Sept. 7, about 155 tons of copper ore, of the usual quality.

Sept. 7, about 155 tons of copper ore, of the usual quality.

At Lewis Mines quarterly meeting, on Sept. 10, the accounts showed—Mine cost for May, June, and July, 2390f. 13s. 1d.; merchants' bills, three months, 1996. 10s. 7d.; lord's dues, 116f. 1s. 6d.—3503f. 5s. 2d.—Black tin solid, and carriage, 2897f. 2s. 9d.: leaving balance, loss on the three months' working, 906f. 2s. 5d. A call of 4s. per share was made, payable forthwith. In consequence of so large a majority of the shareholders being resident in Cornwall, it is deemed undestrable to hold alternate quarterly meetings in Cornwall and London, in secondance with the resolution of the meeting in London, on June 16; it was, therefore, resolved that quarterly meetings be held in the account-house on the mine, as heretofore; and that an annual general meeting be held in London. The committee of management were re-appointed. Capts. W. Bishop and W. W. Martyn reported that during the four months they had been the sgents, notwithstanding all the disadvantages they had been labouring under, from the inefficient state of the shaft and dressing department, the returns had pregressively increased, and the last month's produce had exceeded any return during the same period for some time past.

At Sortridge and Bedford Mining Company special general meeting, on

been the agents, notwithstanding all the disadvantages they had been labouring under, from the inefficient state of the shafts and dressing department, the returns had progressively increased, and the last month's produce had exceeded any return during the same period for some time past.

At Sortridge and Bedford Mining Company special general meeting, on Monday (Mr. Lavington in the chair), a statement of accounts was exhibited, which showed the total liabilities to be 3021. 2s. 9d., and the cash at hank 64. 19s. 7d. The arrears of cail were 1901. 1s., out of which 1501, was considered good. The working of the mine having been stopped some months, the question was whether they should resume operations and sink 30 fms. deeper, or at once wind-up. A large number of shares are held by parties residing in Tavistock, who are in favour of going on. A resolution was eventually passed, that a meeting be convened for the purpose of snaking a call to proceed with the works.

At St. Aubyn and Grylls Mine meeting, on Sept. 7, the accounts for four months ending June showed—Baiance last audit, 1832. 2s. 1d.; mine cost, 22867. 6d.; merchants' bills, 6621. 10s. 9d.; lord's dues, 3f. 5a.; extra cost, arrears, and law expenses, 1274. 16s. 2d. 33641. 14s. 6d.—By black tin, 21871. 11s. 2d.; copper oces, 3744. 5a. 1d.; arearine, 9d. 17s. 4d.: leaving a baiance against stowel target of 9331. 2s. 4d., which was divided provata. They have 52 men on tutwork, and 52 on tribute at about 10s. in 14. The surface operations are going on very interfactory report from Capt. Reat was read, which appears one excess of another column. It was unanimously agreed to raise Capt. East's salary to 10f. 10s. per month-the committee of snaagement were reappointed, and the proceedings terminated with votes of thanks to the Chairman, committee, and secretary.

At the West Crinnis and Regent United Mining Company meeting, on Sept. 12 (Mr. W. J. Peirce in the chair), the reports of Capt. Charles Thomas (d Dolcoath) and Capt. J. Webb, the managing agent, w

The meetic is believed to be the control of the con

poor,
the lo man't the man't the man't the man't the cent.

still a sinkis west the sinkis wes

The Portnage the 10 shafts at has a fr. is just 24 ft. hard question to the porth

ard,

1%:

the

May,
The
i. 5a.
paid,
enry
e in
d, as

ed-

nes-ad of litors , ter-

ance 16d. ice in at on hy of West

ed—
nths,
iage,
i. A
noid
soluterly
inual
nted.
y had
nder,

The rking hould ber of a. A

for

other onth-nated

g, on see (of rable ion of rable ion for derament-iring man,

At the North of Europe Steam Company half-yearly general meetin at the London Tavern, Bishopsgate, on Tuesday (Mr. C. Morrison in the chair), the secretary read the notice convening the meeting, and the report and ascounts, which have been published, were taken as read. The Chairman said he was sorry to have give them a bad account of their affairs. Their revenue account for the half-yearly and the showed a loss of 38,529f. Against that, however, they had to dedu 8754f. 9s. 1d. carried to the eredit of the invarance fund, and 9332f. 7s. 1d. carried the depreciation fund. The balance-sheet showed a total loss of 187,167f. 1s. 3d., as here again they had thought it right to state the entire loss; but there was a sum \$160f. 17s. 10d. standing to the credit of the invarance account, leaving the real deciency in their capital 179,006f. 3s. 5d. The present directors had been two mont and a balf in office, during which time they had been hard at work, first in gettir the accounts into order, that they might hold this meeting as soon as possible, the had been endeavouring to retrench is every way in the management of the conpany. After a lengthened discoussion, the report and accounts were adopted by a lar, majority. The retiring directors were re-elected, and the proceedings terminate with a vote of thanks to the Chairman.

At the London and West of Ireland Fishery Company meeting, of

Cachity.

Gainty.

Ga

CLARENDON CONSOLIDATED MINING COMPANY OF JAMAICA (LIMITED).—Notice is hereby given, that the Directors of the Clarendon Consolidated Mining Company of Jamaica (Limited) have this day made a CALL of TWO SHILLINGS AND SIX.PENCE per chars ee the chares of the company, payable on or before the Six day of October next, at the bankers of the company, Mosers. Hey wood, Kennards, and Co., No. 4, Lombard-street, London, and the shareholders are bereby required to pay the same accordingly.

By order of the Board, JOHN H. KOCH, Sec. 187, Gresham House, Old Broad-streets, London, July 28, 1857.

By order of the Board.

187, Greeham House, Old Broad-street, London, July 28, 1857.

Suparatino Cadmium from Zinc.—Messra. C. Aubel and G. Ramdohr have made a series of experiments on a new method of separating oxide of cadmium from oxide of sine, of which the Chemical Gazette gives a very interesting account. The experiments were made by mixing as neutral a solution as possible of the oxides in hydrochioris or nitrie with an excess of tartaris seld in solution, and then with a sufficient quantity of solution containing 10 to 12 per cent. of solid causel code, to produce a distinctly alkaline reaction. With but few exceptions, all the metallic oxides may be obtained in alkaline solution, by the employment of a sufficient quantitie of intrairie seld. The solubility varies, so that the oxides require for their solution different quantities of tartaric seld and sods; it is, however, easy to hit the right point for obtaining a perfectly elegar alkaline solutions of metallic oxides. The property possessed by some of these sikaline solutions of metallic oxides, of being preciplically applied in many analytical operations, no one yet appears to have thought of employing the precipitability at a boiling heat in analysis. Most of the alkaline solutions remain perfectly clear at this temperature, but some are very soon thrown down by boiling, is greatly dependent upon the concentration of the fluid. The more diints the solution, the more rapidly and completely are the oxides generally precipitated. Pure metallic cadmium was dissolved in hird seld; a sufficient quantity of tartarie acid was added, and then solution of soda; the solution was finally diluted with pure water, and boiled. The protoxide of cadmium was precipitated in white flakes as hydrated protoxide of cadmium sould precipitated by suphuretted hydrogen. The filtrate from the sulphile of eadmium left no residue when evaporated. Quantitative analysis also thought of the sulphile of eadmium left no residue when evaporated. Quantitative analysis also the week o

LEAD ORES.

			Sold	on th	e 11	th September.				
Mines. Foxdale		********		Tons		Price per ton, £16 18 0 th September. 17 9 0	Walk	Purchas er, Park	ers. er, & e	Co.
Herodafoot	********		Bota	. 80	10 13	th September. 17 9 0 th September.	Sims	Willyan	ns, & C	ю.
Wheal Exn	nouth	********	Sold	on th	e 14	th September 15 9 6	В. М	ichell an	d Son.	
Round Hill			Sold	on th	e 15	th September 15 9 6 th September 15 17 6 th September 15 15 6 'th September.	A. E	vton.		
Maniana d	_		Sold	on th	e 16	th September.		W-1		
newtonerd		********	Sold	on th	o 17	15 15 6 th September. 20 18 6	J. P.	Eyton.		
Wheal Wre	y Consoli		*******	. 63	*****	20 18 6	Walk	er, Park	er, & (	Co.
				BL	VOI	K TIN.				
Mines.	To	ns e. q	. lb.	Pr	ice p	5 0 £ 3: 0 0 5:	ount.	Purch	asers.	
Pedn-an-dr ditto	eaUnited	6 17	0 6	1	80	5 0 £ 3	0 17 0-	_	_	
ditto	********	2 3 :	Sold	on th	63	0 0 15	8 2 8-	-	-	
Wheal Sidn ditto	ey	7-0	0 5		83	th September. 15 0 50	8 8 9-	-Enthov	en.	
ditto			-		-		15 5 10-	- ditto		
	ad Cantas					e Royal Hotel,	Manage 6		. 10	
Mines.	ed Septer	Tons.			_	Mines.		ons.		_
Devon Gres	t Consols	144	1	Price 64 13	6	West Caradon ditto		64	Pris	
ditto	**************************************	121	*****	10 12	6					
ditto	**********	119	*****	4 18	6	Hingston Down ditto	n	79	5 9	
ditto	**********	118	*****	3 19	0	ditto	***********	62	6 0	1
ditto	*******	113	*****	3 17	6	ditto		61	10 8	
ditto	********	109	*****	19 4	6	Redford Unite	A	93	2 15	
ditto	00000000000000000000000000000000000000	108		4 5	0	ditto ditto Bedford Unite ditto ditto Wheal Edward		68	3 18	
ditto	*********	107	*****	9 10	6	ditto	***********	63	3 19	
ditto	*********	105	*****	4 12	0	Wheal Edward	i	69	5 14	1
ditto	*********	109		10 18	0	ditto	*********	58	4 6	1
ditto	**********	97		4 12	6	ditto ditto Collacombe	**********	91	9 16	
ditto	**********	95	*****	3 6	6	ditto	**********	14	19 1	
ditto	*********	94		4 2	0	Collacombe	**********	91	7 15	
ditto	*********	86	*****	10 14	0	ditto		69	6 11	. (
ditto	**************************************	78	*****	3 2	6	Wheal Friends	hip	67	16 0	
ditto	*********	70	*****	5 9	6	Wheal Prome	**********	64	7 16	
ditto	***********	41	147499	3 15	0	ditto	***********	51	7 19	
ditto	********	40	*****	2 7	6	Tavy Consols	********	65	2 18	1
ditto	**********	38	*****	4 5	6	ditto	**********	26	7 10	
Phonix Mi	nes	83	*****	5 18	6	Kally Bray	**********	39	4 6	
ditto	***********	82		5 3	6	ditto		87	5 9	1
ditto	**********	77	*****	4 5	0	Gawton Coppe	F	71	*8 16	
ditto	********	76		4 6	6	Devon Buller	***********	62	7 16	1
ditto	**********	61		9 16	6	Wheel Zion	180011	99	5 17	
West Carad	on	100	*****	7 16	6	Devon and Cox	rtenav	13	4 10	
	*********			8 5	6	Collacombe ditto Wheal Friendi ditto Wheal Friendi ditto Wheal Emma ditto Tavy Consols ditto South Bedford Kelly Bray Gawton Coppe Devon Buller East Wheal Ei Wheal Zion Devon and Con ditto ditto ditto		7	10 15	1
						RODUCE.				
Devon Grea	t Cons.22	222	£131	92 13	6	Tavy Consols	91	£	385 15	
West Care	on 4	30	. 24	01 5 97 19	0	Kelly Bear	90		258 15 375 8	3
Hingston D	own S	154	17	39 3	6	Tavy Consols South Bedford Kelly Bray Gawton Coppe	Nr 71	*****	269 16	3
Bedford Un	ited 2	31	. 11	76 11	6	Devon Builer East Wheal Br	65	******	200	3
Wheal Edw	ard 1	85	. 12	46 0	6	East Wheal Ro	assell 42	*****	166 12	3
When Prin	ndahin	98	. 11	29 8	6	Wheat Zion	23	*****	125 7	
Wheal Rms	na	118	. 19	42 4 12 11	0					
Devon Great Phoenix Mi West Carad Hingston D Bedford Un Wheal Edw Collacombe Wheal Friet Wheal Emr	undard	*****	614	9 4	01	Average Decim				e
·· . craffe un	Avera	ge Pric	e per	ton.	011	Average Productive of Fin. £28, £147 15 0.—A	£6 4	0	18036000	9
Quantity o	of Ore	*********	45	30 tox	18	Quantity of Fine	e Copper	271 tons	llow	LS.
TAOT CAT	AR	nount o	Mo		*****	£28,	067 7	)		
BI	andard of	f corre	pond	ing s	ale l	ast month, 146i	6s.—Pr	squee 5%		0)
C	OMPANI	ES BY	WH	IOM !	TH	ORES WERI	R PURC	HASED		
				-		CORES WER		Amoun	t.	
Mine	s Royal C	ompan	y	*******	*****	148	********	£1049 13	0	
Prop	man and so	Co.	******	*******	*****	45	*******	3842 A	7 6	
Gren	fell and f	lons	******	******	*****	587		4172 1	4 3	
Sime	Willyan	a, Nev	ill, ar	ad Co.		548		2616 1	5 5	
Willi	ams, Fos	ter, and	i Co.		*****		**********	5984 1		
Spitt	y Copper	Compa	ny		*****	287	***********	1999 1	0	
MARO	n and Ell	rrotton	*****	*******	*****	306	**********	1177	7 6	
Copp	er Miner	, Comy	BRY	*******	*****		***********	2148 1	6 7	
C. La	mbert	***********			*****	288	***********	1176	6 6	
	_					_			-	
	Total	1				4530		28.087	7 9	

Copper ores for sale on Thursday next, at the Royal Hotel, Truro, —Mines and Parcals. —United Mines 520—South Caradon 390—8s. Day United 312—South Crimis 178—
—Craddtock Moor 188—Great Crimis 168—Gonamena 153—South Wheal Ellen 120—
Consolidated 97—Wheal Ellen 81—Ferran 8s. George 58—North Wheal Busy 30—
Wheal Vyvyan 21—Tretheilan 18—Nanjibes 18—Wheal Henry 16—Wheal Freedom
16—Bawden's Ore 14—Polbreen 12—Tookin's Ore 11—Bashleigh's Ore 7—Great Wh.
Leisure 6—Polberro 4.—Total, 2533 tons.

Copper ores for sale on Thursday week, as Randall's Hotel, Pool.—Mines and Parcein.—West Wheal Seton 392—South Frances 404—Wheal Basset 384—East Pool 370
—Wheal Clifford 397—Timeroft 353—Fowey Consols 336—Duke of Cornwall 297—
Wheal Seton 183—Condurrow 187—North Pool 146—South Crofty 184—Dolconk 85
—Camborne Vean 64—North Roskear 50—West Crimis 50—Stray Fark 21—Goldsworthy's Ore 21—West Par Consols 29—Wheal Trefusis 17—Wheal Uny 14—Eny's Ore 9—West Frances 6.—Total, 3935 tons.

				THI	BD	SALE	IN	8	BEE	TEM	BE	R.				Α,			
161	8.	Tons.	1	Prod		Amon	nt.			Stand	ard		0	re o	ope	m	. 1	Cake	601
48	************	2592		10K	-	£15,965	15	6		£ 81	8	0		£55	-3	0		\$79	10
40		. 2467	***	256	***	16,475	3	0		99	17	0		70				84	
50	***********	. 2679		936	911	17,149	14	0	***	96	14	0	***	67	14	0		79	
51	***********	. 2630	990	836	***	15,182	5	6	***	93	18	0	***	64	39	0		84	0
52	***********	. 3352	949	7%	444	23,300	15		***	127	14	0	***	- 91	23	0		102	10
53	************	. 3790	100	136	***	26,496	10		***						8			107	10
54	***********	3975		7		27,812	13											126	
55	***********	4705	***	614		30,264	7	0	400	146	10	0	***	103	13			196	0
56	**********	. 4689	***	6%	***	26,199	4	0	***	131	- 2	0	***	87	17	0	-	107	10
Ship	annes in	the as		-	-	a sha mat		all.		-		-	-	-	-14	-		-	

[SEPT. 19, 1857.

THE PROGRESS OF MINING IN 1856.
BEING THE THIRTEENTH ANNUAL REVIEW.

KUDESEAJE, DANS

By J. Y. Warnon, F.G.S., Author of the Compendium of British Mining (publish in 1843), Gleanings among Mines and Miners, &c.

The THIRTERNYH ANNUAL REVIEW of MINING PROGRESS appeared in a SUPPLE-ENTAL SHEET to the MINING JOURNAL of Jan. 3, 1857.

A FEW COPIES of the REVIEW OF 1835, containing Statistics of the Metal Trade, the Dividends and Per centage Pald by British and Foreign Mining Companies, and the State and Prospects of upwards of 300 Mines. Aso, a FEW COPIES of the REVIEW OF 1832, 1833, and 1854, MAY BE HAD on application at Messrs. WATSON and CURLI'S Mining Offices, 1, 8t. Michael's-alley, Cornbill, London.

Also, STATISTICS OF THE MINING INTEREST. By W. H. CURLI.

WATSON AND CUELL'S MINING CIRCULAR, published every Thursday morning, price 5d., or £1 is. per annum, contains special Reports of Mines, and the Latest Intelligence from the Mining Districts, from an exclusive resident agent; also, Special Recommendations and Advice upon all subjects connected with Mining, and interesting to investors and speculators. A Record of Daily Transactions in the Share Market, Metal Sales, and General Share Lista, &c. Edited by J. T. Warson, F.G.S., and published by Warson and Cuell, 1, St. Michael's-alley, Cornhill.

N.B. Looking at the causes for the accessing degreesion in mining shares. Means

N.B. Looking at the causes for the present depression in mining shares, Me MATSON and CURLL have made a selection of a few dividend and progressive m to pay good interest, with a probability, also, of a rise in value, the names and ticulars of which will be furnished on application.

INVESTMENTS IN BRITISH MINES.—
Mr. MURCHISON'S REVIEW OF BRITISH MINING for the QUARTER
ENDING 30th June, 1857, with Particulars of the Position and Prospects of the
principal Dividend and Progressive Mines, Tables of the Dividends paid in the past
Quarter, and in the Years 1853 and 1854, and a MAP of the GREAT WHEAL VOR and
LELANT MINING DISTRICTS, &c., is NOW READY, price is.; at Mr. MURCHISON'S
offices, 117, Bishopsgate-street Within, London.
Reliable information and advice will at any time be given on application.
Also, COPIES of "BRITISH MINES CONSIDERED AS AN INVESTMENT."
By J. H. MURCHISON, ENG., P.G.S., F.S.S. Pp. 356, boards, price 3s. 6d., by post 4s.

CORNISH AND DEVON MINING ENTERPRISE,
By R. Tardinnick, Mining Sharebroker, Gresham House,
Old Broad-street, London.
Facts and Statistics recorded, Synopsis of Dividend Mines, Plan of the Buller and
Basset District, a Clear and Succinct Description of the chief Mines. All interested
in such investments should possess a copy. Price 5s. bound.

T. IVES, LELANT, AND TOWEDNACK MINING DISTRICT.

—Mr. TREWEEKE begs to inform his friends and the public generally that his MAP of the above DISTRICT, and a STATISTICAL ACCOUNT thereof for the past 30 years, is NOW READY, and will immediately be sent to any party who may require a copy, on the receipt of 14 postage stamps.

Dated Uny Lelant, Hayle, Aug. 7, 1857.

Just published.

Just published.

OPTON'S PLANS FOR VENTILATION OF COLLIERIES; showing separated Winds, that will Prevent all Serious Explosions in Coal Mines. On the same sheet, the Works and Ventilation of the Lund Hill Colliery are represented. Price 3s. epresented. Price 3s.

May be had at the Mining Journal office, 28, Fleet-street, London.

A notice of Mr. Hopton's invention appeared in the Mining Journal of 20th June.

PATENTS, SEVERAL THOUSAND: A CLASSIFIED CATALOGUE OF SUBJECTS; with ADVICE TO INVENTORS ON PATENTS, CAPITAL, AND CONTRACTS."

ADVICE TO INVENTORS ON FASTER Post free.

Post free.

H. Dircks, C.E., Patent Agency Office (Established 20 years), 32, Moorgatestreet, City.

COMPULSORY REGISTRATION OF JOINT-STOCK COMPANIES.

Now ready, price 4s., the Second Edition of

TAPPING'S EXPOSITION OF THE JOINT-STOCK
COMPANIES ACTS OF 1856 AND 1857.

Designed as a practical outpe for the Promoters, Directors, Shareholders,
Solicitors, Secretaries, Officers, and Creditors of all kinds of Joint-Stock Companies.
Containing a Clear Exposition of the recently passed
JOINT-STOCK COMPANIES ACT, 1857.

e, and all necessary forms.

By Thomas Tappine, Esq., Barrister-at-Law.

Author of the "Readwin Prize Essay on the Cost-Book System," &c., &c.

London: Mining Journal office, 26, Fleet-street; and all booksellers.

## Batices to Correspondents.

• Much inconvenience having arisen, in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal should be regularly filed on receipt: it then forms an accumulating useful work of reference.

REDUCTION OF COPPER ORES.—I had thought that this question, affecting, as it did, only one of the baser metals, would have been previously solved. We have now three patents taken out within the last twelve months—that for Sanding's process, by Messrs. Pinto, Perce, and Co.; Messrs. Neil and Reid's; and Mr. W. C. Deeley's. The results of these have not come to hand. There is abundance of copper ore to experiment upon; consequently there cannot be the same excuse as has litterto retarded the various alchemical projects for gold making. Any process which can be practically proved to be able to economise so useful a metal as copper will not require much support to bring it into motoriety. There are reveral who would willingly subscribe for so legitimate an object; but there have been so many assertions within the last few years, without any tangible proofs, and the public have been as deceived, that there is no wonder they now stand aloof. Let any of these inventions do but half what the patentees aver, and they will not only enrich themselves, but comer a great benefit on all classes interested in the copper trade, from the miner to the consumer; the only one exception will be the present grinding middle-man—the monopolist of Swanses.—Brase: Birmingham.

WHALL MARARET.—I precived in your "Notabilla," last Saturday, a statement that

MIGHEL MAGARET. I perceived in your "Notabilia," last Saturday, a statement that 
"Wheal Margaret was in a very favourable position, and that a dividend of 54., or 
more, might be expected nextmeeting," I fear that this information is not "purely 
unselfish," and I should recommend intending purchasers to wait the report which, I hear, some gentlemen who hold a large interest in the mine intend shortly to 
publish for the benefit of the adventurers.—A SHARKHOLDER: Sept. 16.

publish for the benefit of the adventurers.—A SHARKHOLDER: Sept. 16.

ANGLO-CALIFORNIAN GOLD MINING COMPANY.—The majority of the shareholders of this association do not seem to be aware of one fact—that is, that the law-suit between Sir Henry Huntley and the directors is to be settled by private arbitration. Both these parties stated in the Mining Journal that they were willing to settle their disputes by an appeal to the shareholders, or in a public court of law. How is it the case is now to be burked? are both parties so interested that the whole of their transactions should not be known? Surely this is a question for the legal liquidators to look into. I cannot but believe that their time would be better employed, and of greater benefit to the shareholders, than it is now, in endeavouring to involve all parties in hopeless litigation.—Scarr: Reading.

to involve all parties in hopeless litigation.—Scair: Reading.

University Degrees.—In reply to your correspondent's query—whether I would invest a retail druggist or village organist with a literary title?—I should say, certainly, if he were qualified and fairly won it. I deprecate all malpractises as much as anyone, but in fairness I instanced honourable exceptions, as the word "German" has a very wide sense, and applies beyond Hesse Darmstadt and Bavaria. I am at a loss to understand how the goutlemen alludes to consider one degree infea dig., when the candidate for LL.D. goes through assarly the same process as the theologian and philosopher. In all probability, the "faculty" of juri-prudence is open to the same means a that of arts and medicine in the quarters specified, and I have known a Ph.D. diploma endorsed with power to adopt LL D. Certain names are "household words," and require no adjunct. We must not overlook that there are many forgeries extant, a glaring case of which has been lately exposed in Scotland.—Germancus: Sept. 15.

University Degrees.—If a man has fairly earned his degree, he has a perfect right

land.—Germanicus: Sept. 15.

University Degrees.—He man has fairly earned his degree, he has a perfect right to attach to his name the initials of any honour that he has won. The great evil at present is, that degrees are often conferred which are numerited; and where there is no oral examination, the system of granting degrees on the strength of a written thesis will always be open to abuse. In Oxford and Cambridge we have heard of "coaches," and many a person has passed there who has not deserved honours, having been crammed for the occasion. Even though individuals have attached to their names Ph.D., Li.D., or D.C.L., unless they have the ability and knowledge to support the degree their pretensions are soon ignored, their qualifications find their natural level, and these prefixes become a disadvantage instead of a benefit. An empty quack may impose on an ignorant multitude, but his assumptions are generally ridiculed by sensible people, and his folly exposed. The ass may don the lion's skin, but the cars will peop out, and thus the evil will effect its own cure.—Dunelm.

University Degrees.—Had your apprendiculated the literature.

University Drouges.—Had your correspondent "B." been a member of a university, he would have saved himself the trouble of his remarks in your last Journal whereby he proves that he is utterly unacquainted with the faciliars of a university of the control of the Javurgaury Drourss.—Had your correspondent "B." been a member of a university, he would have asred himself the trouble of his remarks in your last Journal, whereby he proves that he is utterly unsequainted with the feelings of a university man, and with the precedence which the degrees of the several faculties take. The Giessen Ph.D. is, I admit, frequently improperly conferred, and the same remark might apply in a lesser degree to Eriungen; but the other German universities are not materially less scrupdious in granting their candemical distinctions than similar institutions in England—London alone excepted. The Faculty of Law takes precedence of that of Philosophy, and we may, therefore, presume that Drs. Stanhouse, Hofmann, and others, have abandoned their Ph.D., not because it was sifted dig., but because they have attained to a higher university position. The feeling with which they "dropped" the Ph.D. was, no doubt, very similar to that experienced by a graduate who drops the R.A., and "proudly used in its stead" the M.A. I would answer "B." by stating that if the retail druggists and organists alluded to have obtained the doctorate in any university of repute, and where discrete are not granted irrespective of merit, they are, undoubtedly, as much entitled to the distinction as any other gentleman in the land, since a university degree is, and should be, regarded as a cert ficate of the literary or scientific attainments of its possessor, rather than as a proof of his wessish or hereditary position in life. By the modifications about to be made in the Statutes of the University of London, all who have acquired sufficient knowledge to qualify them for the honour will be enabled to obtain a degree; but, in the eyes of really educated men, the value of the title will not deminish because it is sajoyed by artisans in common with flemmastive, as to the liliterate the degree conferred by the university in the salves, as to the liliterate the degree of the read of the future.—Mastra or Aars,

VENTILATION OF COAL MINER.—Not having as yet met with any reply to the question (on ventilation of coal mines) put to Mr. Hopton, of Wakefield, in the Newscattle Journal of Sept. 5, although I sent him two copies of that paper, containing the diagram, &c., relative to the question, I beg to say, should no ceply be given during this sext week, that I will then more fully point out the defects of Mr. Hopton's improved plan in the Mining Journal, and shall endeavour to convince him and the public that the plan of ventilation, as laid down by him, will not hear a practical test.—J. Walks: Hetton Colliery, Sept. 16.

SAFETY-LAMPS.—From what has been published in your valuable Journal with refracence to the introduction of anfaty-iamps generally, it appears that the greatest objections raised against them is by the men, who fear that they may lose a trific of their hard-carned wages; but, if they look at the matter in its proper light, they would find that their introduction would, in most instance, be an absolute benefit to them. The masters, who have been among the first to propose them, have liberally offered to provide lamps and keep them in order; and, as under the present system they provide their own candles, they yould really own from 1s, to 1s. 6d, per work more than at present. This fast abould induce every collier to urge, rather than obstruct, the use of asfety-lamps. As to light, those of the Musesier class give four times the light of a candle, and cannot, therefore, be objected to on that point.— Carnox: Sept. 17.

Sayery Lawrs.—A slight error occurs in your notice last week on this subject.

times the light of a candle, and cannot, therefore, be objected to on that point.—Carnow: Sept. 17.

Larger Laws.—A slight error occurs in your notice last week on this subject. At the Government School of Mines, Mr. Warington Smyth observed that in Belgium 18,000 of Musceier's lamps had been in use daily for ten years, and only three netlets had occurred during that period from the breakage of glass, thereby proving that the objections so commonly raised against the use of a substance which afforded a greater illuminating power were not founded on any valid ground.—A Student Class in Southand.—A Student and or or or had been discovered in Argyleshire, and that a large quantity of spathose from ore had been discovered in Argyleshire, and that some thousands of tons could be had at a low price. Now, if I mistake not, this is the description of ore used to produce the famous German steel; and if it be so, there is a large field for enterprise thrown open. The steel manufacture in Westphalia and the Rhine province gives employment to a vast number of persons, and maintains them in comparatively comfertable circumstances; indeed, poverty in those districts is almost unknown, although labour is cheap. The importance of the discovery of cres which would produce a superior description of metal to the best manufactured is acknowledged, and I trust, therefore, that no time will be lost in testing the value of the Argyleshire discovery, and, if it he as valuable as stated, that steel made from Soutch spathose will specify be brought into the market.—H. J.: Lincoln, Sept. 13. Charcellonsville Gold Reduction Company.—It is but justice to state that Mr. Harris invited me to visit the Frodaham establishment a few weeks ago. During my stay at Rhyl and Chester I had frequent opportunity of seeing the works, but I considered it was preferable to wait a few weeks longer, until they were ready to reduce large quantities, before making an inspection. In the event of the shareholders requiring my service for such an inspection, as

The reduces of the same. Evan Horstens: Ripon, Forkshire, Sept. 17.

Fig. "End of the Month,"—Through the medium of the columns of the Mising Journal, we are informed that at the end of the month the Chancelloraville Free-hold Gold Mining Company will have the whole of their extensive machinery in full operation. By the same channel, we are told that Senor de Grimaldi will pay to the liquidators of the Asturian Mining Company the last instalment, due July 6. That period will be quarter-day, when rents fail due; a little grace is then generally allowed, say some three weeks after, and I shall be only too happy if a favourable solution to both these questions is arrived at by that time. I at he meantime, I cannot but think that the directors of the Chancelloraville Company would do well to avail themselves of Mr. Eran Hopkins's services, he being so near at hand as Chester. He would probably be able to account for the delays which have hitherto taken place, and, if required, his report might induce the shareholders to acquiesce in a further extension of time as regards this company. The liquidators of the Asturian Mising Company, I believe, ought to know their duty -to sillow no further delay to take place there, but proceed at once to a settlement of affairs, which, if allowed to lay dormant, must only lead to further disappointment, and an immense amount of chicanery and litigation, the issue of which it is not easy to the Massen and Buddling of Orake.—I beg to thank you for the favourable online.

foresee.—An EXPECTANT ON BOTH.

RESSING AND BUDDLING OF ORRS.—I beg to thank you for the favourable opinion
given in your last Journal, in the paper treating of my ore-dressing apparatus
but I could have wished that you had drawn the attention of your readers and or
dressers in a little more detailed maner to my apparatus, as far as it refers to the
m ais part of buddling operations,—namely, to the most equal mode of feeding any
buddling concern and the regulating box by means of water pressure, whereby the
most complete stirring of the slimes is obtained, without incurring any manual or
mechanical power and costs whatever.—C. H. G. Thosy: Tyndrum, Sept. 14.

mechanical power and costs whatever.—C. H. G. Triosr: Tyndrum, Sppl. 14.

SOTTMATE MINING.—I have attentively read Mr. Ennor's prospectus of the Owlacombe Tin Mines, near Ashburton. I had always heard that be most decidedly
objected to that district for mining purposes, therefore he must have had reason to
alter his opinions. Although his prospectus contains many passages that smeke of
egotism, yet there are reasons put forward in a calm, astisfactory, plain manner
more than compensating for the didactic style of the document. Mr. Enner makes
it appear on paper that the mine is in reality no adventure; but I am rather at a
loss about what is to be Mr. Ennor's remuneration: If he, as he appears prima facis,
give the whole of his time, experience, expense, and trouble to the company, all I
can say is, he is the most liberal captain I ever heard of. He is now fairly in the
field, and launched on his own account on the vortex of mining: we shall now see
what he can do. He has promised much, he has been liberal in the condomnation
of others, and will, consequently, have to battle many oppositions and crosses.
These I hope he will surmount and conquer. If he make this a dividend mine, as
promised, he may calculate on being able to raise ospital to work any mines he
may please to bring out. He deserves success, and I hope he will at one obtain a
good list of adventurers, to enable him to effect it.—A Mine Adventurers.

Rossie and Canada Lead Company.—Can any of your readers give me information

good has of all centures, to constant of the c

25—will the directors confirm it!—M. W.: Chetter, Sept. 17.

JacQu-CLIFORMIAM.—No leiter or communication has been received by us from Si H. Huntiey, or it would have appeared. Our columns are open to all, which "In quirer" must be well aware.

Dayon GRATA ELHABETH.—We have received several letters in reference to the alleged discovery of sopper ore at Holne, near Ashburton. We have published enough to show that Capt. W. Williams is considered a very fortunate man in having opened what is believed will prove a valuable mine, but we should like to have an authenticated report, or a verified statement, from Capt. Williams himself, from which our readers could better judge than from the anonymous assertions, it may be, of interested parties.

NUM STRON MUME. CA REMEANMENTS.—Travelling from the far West into this locality.

ested parties.

www.KEROW MINE, CARDIGANBHIRE.—Travelling from the far West into this locality, and taking up your highly interesting Journal, I was agreeably surprised to find that this part of Wales had become a tin-producing district. To Mr. Paul, of the above mine, belongs the honour of this discovery, which honour is greatly enhanced by the consideration that the existence of tin ores in Wales has never been known by Cornish mine agents of long standing in this neighbourhood, and of many years prior experience as tin miners in Cornwall. As this matter is interesting enough to cause a discussion, perhaps Mr. Paul will be kind enough to state the circumstances and proofs of his discovery.—Stanmun: Goginan, South Wales, Sept. 14.

prior experience as in miners in Cornwall. As this matter is interesting enough to cause a discussion, perhaps Mr. Paul will be kind enough to state the circumstances and proofs of his discovery.—Stankun: Goginan, South Wales, Sept. 14.

Cwg Shoo Mine.—On perasing your last Journal, I was not a little surprised to find that Mr. Paul had discovered tin in the stuff from this mine. Capt. Boundy, who is a Cornishman, and the resident agent, reports fully on the operations of the mine, but omits to name the discovery of this metal. I have been engaged in developing some of the mines in Cardiganshire of the last 13 years, and have inspeedd the mine in question, but in no instance could I trace any of them to contain tin. Mr. Paul being a stranger to the lodes of Cardiganshire, allow me to suggest that he take a second glance of the stuff, when I think he will find his co-solid fin to be nothing but blende. The sudden discovery of such a valuable metal in this locality has caused much interest.—An Old Subschink: Goginan Filiage, Sept. 15.

Cautton to the proceedings of Mansfeld Marks, being the same gentleman who represents Mr. Robert Marks, 25, Bloomsbury-place, Brighton. Hearing that he had solicited and received a large sum of snoney from the iron trade for Cort's Testimoniai Fund, wholly without the authority of the committee or myself, I considered it my duty to pay a visit to Glasgow, and ascertain, if possible, the extent to which the iron trade had been misled. One of the principal iron companies having enquired, after reading the advertisement in your coural, whether Mansfield Marks had paid the samount they had subscribed to the bankers, they were assured the money had been so deposited; but, on enquiry at Sir John W. Lubbock's, they found that not one farthing had been received. Mansfield Marks was then threatened with prosecution if the money was not returned, when he suddenly left Glasgow, and has not since been seen. I learn also that he confessed to several of the iron companies that he had collected a

others against the weil-paid generosity and sympathy of such a collector as Mansfield Marks.—Richard Cort: Glasgow, Sept. 16.

Wheal Emma, and its Management.—I do not attempt to defend the management of this mise, which, I must admit, is at least uppractical, and which your valuable correspondent, Mr. N. Emor, sufficiently exposed in your Journal of Sept. 5; and such an authority cannot fait to have influence with the unjority of shareholders; but when I read the letter from "J. R. V. W.," in last weik-Journal, I was not a little surprised at the strong language he used. It is, I believe, an acknowledged fact that those living in glass house ought not to throw stores, for fear of an seel-dent. I write without the least prejudice to "J. R. V. W." or any of the Emma parties, my motive being, if possible, to give all the full benefit of their merits. When speaking of mismanagement, the writer seems entirely to have lost sight of the fact that he himself was a party to some peculiar management () at C—Wical P—, not far distant from Emma. Perhaps his response will be that he had nothing to do with the management; but I hold that he was adeputy, or rather an agent, under a very near relative, and we cannot doubt, therefore, but that, whatever he might have suggested for the benefit of the mine would have been to some extent weighed over, and if thought practical adopted. If, at the time so many stamps were exceed, he had prudently advised the adoption of only two heads instead of 24, for the quantity of tinatuff they had then discovered of a commercial value, we might have called that discretion and good management, so far; but when we reflect on the facts that have some under our notice—pienty of stamps, received at a great cost, and no staff to keep them employed—we cannot but feel surprised that parties guilty of such errors should venture to censure others. If he can show us where any superior and practical mode of mining has been accomplished, wherein his voice has been regarded, then we shall be found foremost

• • The Mining Journal can be produred at our office by Eleven o'clock on Saturday morning. Newsmen, therefore, can make the necessary arrangements to have the Journal at the several stations in time to forward by the mid-day trains, enabling many of our subscribers to receive their copies on the day of publication.

# THE MINING JOURNAL

Railmay and Commercial Gagette.

LONDON, SEPTEMBER 19, 1857,

The standard for copper ore still rises, and is now at a satisfactory price. The demand for the metal is continuous and steady; we may, therefore, hope the smelters will see their true policy in this as in all other businesses is to let live as well as live. If they give miners a fair price for ores, they will hear few complaints from them, who are a passive set of people if fairly dealt with. Great quantities of copper ore will be sent into the market by tributers who cannot work so as to gain a livelihood at such, we deem, so unfairly low a standard as we had but lately to quote. Such was the case at Fowey Consols, where many pitches were refused by the men that will now be gladly taken. This is by no means a solitary instance, and we quote it because we have it from the agent's report. It is but an index for other mine proprietors to be guided by, not to allow their properties to be trifled with. Now, however, all is well, and we wish no further to refer to the subject.

Tin is also at a remunerative figure, with a probability of its continuing so for a long time to come, stocks being low and the demand increasing, so that tinners are, and have every reason to be, contented. This must be of vast importance to many young mines, of which we quote, as per agent's report, the St. Austell Consols. This, again, is but a type. Lead ores are steady, the varieties containing a good precentage of silver in great demand, and obtaining large prices. Spelter is at a high quotation; any fall in this article would be followed by an increased consumption, the high prices limiting purchases by consumers. Iron is in good request, at prices remunerative to the producers. Antimony and nickel, of which our home produce is but small, are, however, enquired for, as are arsenic, barytes, and mundic, the latter being now consumed in considerable quantities—a relief to many mines, where it was almost deemed a nuisance.

The state of the metal market is all we could wish it; therefore it is not nesses is to let live as well as live. If they give miners a fair price for

ed a nuisa

The state of the metal market is all we could wish it; therefore it is not to be wondered at we have an improved demand for shares in productive mines. There evidently appears to be a better feeling towards these so-curities than has for some time existed. We think, when London shall have returned to town from Brighton and other watering places, where it may now literally be said to be, we may look for a further and a decided rise in good stocks. Capitalists are evidently more disposed to enter on mining; that vague, undefined projudice against it appears to be subsiding gradually—wearing itself out, like an expiring ember. Money is expected to be more abundant shortly, the pressure is already less evere, the India news is looked on as favourable, although the disaffection still spreads a little, yet the danger is past, the worst is over, and that it will be subdued without severely taxing the resources of the country when this conviction shall be acted on, we may look forward with good reason to a general improvement in trade, and a still greater rise in mining stock of all descriptions.

The accounts from the districts confirm the reported discoveries and The state of the metal market is all we could wish it; therefore it is not

when this conviction shall be acted on, we may look forward with good reason to a general improvement in trade, and a still greater rise in mining stock of all descriptions.

The accounts from the districts confirm the reported discoveries and improvements already announced by us. Rumours are prevalent of two or three further extraordinary deposits having been found, but we forbear reporting them fully until further developed. Ere the year expires we anticipate an addition to our Dividend List.

The gradual recovery of prices from the extreme depression in the manner now being realised, in our opinion, augurs much more favourably for being permanent than if they had advanced by one sudden bound; it bespeaks more caution and determination, though it makes less display and excitement, which would as surely be followed by a reaction. The present movement appears to be anything but the speculation or jobbing that has heretofore entailed such consequences. Our impression is, that far larger amounts have been laid out in mining shares for investment than is generally supposed, it being done quietly, not making that noise and bustle heavy transactions in the "House" display. The largest purchases are made amongst friends, and do not become the subject of general conversation. We know that such stock is daily becoming scarce. We hope to see the nobility and capitalists paying more attention to this our national wealth than they have hitherto done. The Marchioness of Loxononemer has set an excellent example. When it is known that such persons as we have been almost compelled to adduce as being interested in mines, when the almost fabulous revenues they have received, and which are being daily augmented in number and amount, shall become better understood—when heavy stocks are purchased for "rest" and receiving dividends, and not for being sold and re-sold for speculation and making money by dealing, as a discovery may at any time double or even quadruple their value in a few days or hours. Their prices now are still ver

The lamentable accidents which have occurred in Lund Hill and other collieries have naturally excited, not only a universal sympathy for the sufferers and their sillicted families, but have again given rise to enquiries as to the possibility of preventing the recurrence of such appalling evils. The communications which have appeared in our columns clearly indicate the great desire there is among all classes to contribute something towards such an important discovery. So carnest has been the anxiety of some of our intolligent correspondents to provide a remedy, that they have even hazarded the publication of inventions which, whilst they displayed great ingenuity, evinced also a perfect absence of that practical knowledge which is essential to the adaptation of a remedy to an evil. Although we have no disposition to ignore the well-meant and laudable assistance of men who have never been employed in, or even visited a colliery, yet in questions involving such serious consequences it surely behoves all who suggest new plans or new instruments to make themselves thoroughly acquainted with all the peculiar circumstances a knowledge of which is essential to the practicability and, what is more, the safety of their scheme. It is often alleged that the inventor of the Davy lamp was no collier, and this is held as a triumphant answer to the croaking of those who find fault with inventions of amateur engineers. It ought, however, to be remembered that Sir Humphary Davy spent several weeks in the coal mines of Durham and Northumberland, and in the society of the ablest colliery engineers of the distributions of defective, as to render the use of a safety-lamp unnecessary, we shall content ourselves by assuming as a fact, that in many collieries the fire-damp is an abundant, and the system of ventilation so defective, as to render the use of a safety-lamp absolutely imperative. Taking this as granted, it is evident that too much importance cannot be attached to the discovery of a lamp which possesses perfect security with every other requisite. Although a great step in advance, it has long been felt that Sir H. Davy's invention was far from perfection. An increasing want of confidence in it has been gaining ground. Numerous modifications of it, as well as of Stephenson's and Clanny's lamps, and the system of the The communications which have appeared in our columns clearly indicate the great desire there is among all classes to contribute something towards such an important discovery. So earnest has been the anxiety of some of

have been tried; but in none, that we have heard of, has perfect codence been felt. The simplicity of construction, its comparative ch

almost to the on bein upon a or moin which,

and as

oceapie within as a 2-i on incl

nuch v

Whe

introdu

ie has

WILLIA

7.

neces. n time ribers

price.

busiice for set of

ntinu-This.

ype. of silhigh Iron

t is not luctive ese se-n shall

where

untry

of two forbear we an-

bly for

ay and he pre-obbing is, that

oness of on that ag inteeceived,

et" and culative nquired ion and

or even are still value of

be per-ure; to urchase and cry mining, on. If ness the

advice, tion be one so

for the nquiries

ng evils. indicate towards

ed great which we have non who uestions

rest new ted with to the is often s is held with the embered Durham

neers of and we is fame. whether use of a as a fact, ratem of solutely

impor-ses per-idvance, rfection.

Numee chesp.

set, and small reight are strong recommendations to the Day; and not be dead in the day of the meeting a sich deposit of the windows of the field light which it smits it is used for now explanately an interest of the set of the set

the air can reach the flame without any special arrangement being made for the purpose.

This lamp has been severely tested in several flery collieries in South Wales, and given great satisfaction. It combines the following essential requisites—simplicity of construction, a large amount of light, safety, and a comparatively small cost. With such strong recommendations, its success may be confidently predicted, and we trust that all colliery managers will so far avail themselves of this valuable modification of the Davy as all least to give it a fair and thorough trial; and should this inexpensive but important trial be successful, as we anticipate it will be, and lead to the general adoption of Mr. Strauvs's lamp, we may reasonably expect a great diminution of those appalling explosions so often recently occurring.

In another column will be found some remarks from a correspondent on iron shipbuilding. From the same source we have previously received much valuable information, but on this occasion we are forced to say that our correspondent has mistaken his vocation, and forgotten the old adage of "Ne sutor sutra crepidam."

When the Great Western was first built, it was reported that with her four masts she could not stem the ocean, although subsequently the Great British was launched, and performed her voyage with safety. When stranded at Dundrum Bay, she was got off with comparatively little difficulty, thereby proving that iron ships could weather out disasters where wooden ones would fail. One great invention has been the precursor of another. The locomotive invented by Gronge Stephenson, in its first introduction at Killingworth, run its course most modestly, subsequently it scheved the great results which we all know; and so it is with all things sublunary. Morream, the painter, a dissipated man, commenced with house painting; he subsequently was known as a great artist: we do not mean to infer that all house painters must be artists, but still if they have the talent, and possessing the first elements of the art, they should progress. A plumber has been able to know the quality of the lead he used, and a glazier the composition of the glass which he putties in a window. The sage is one of progression; retrogression is ruin. Our correspondent requires that we should pause; he fears that he sees larger ships looming in the distance, and, according to the tenor of his communication, we should believe, did we not know to the contrary, that these fears which he has conjured up, are mere hallucinations, and that while under their influence he "saw double."

If such fears were to agitate the community at large, or had any influence, then all progress must cease. It may be remembered, that some years since it was said that railroads were impracticable; and when Grosse Stephenson was examined before the House of Commons, Mr

the Great Eastern, now a leviathian, will be the precursor of "mammoths."

The Great Wheal Vor United Mining Company held their quarterly general meeting on Wednesday, at which Mr. Vansittar Nelle probled, and the proceedings were of the most amicable nature. Referring the expenditure, the Chairman and his co-directors met, or rather antipated, the wishes of the shareholders, and the full and apparently satisfactory explanation given of the cost, whether regarding the management is the materials supplied to the mine, and the promises of a close retrenchasat for the future, were received with much satisfaction, and must be highly gratifying to the absent shareholders. The personal attention of everal members of the Board in visiting the works, underground as well a surface, is an example that should be followed, as a wholesome check of the existence of abuse. The clear manner in which the Chairman anyred enquiry also had its effect upon the meeting. Not the least restricted a fact in the proceedings, however, was that some of the more affuential shareholders, representing a large country interest, advocated larger call than from the explanations of the Chairman was considered requisite. A reference to the accounts will show the punetuality with which the call of 50,000? was responded to, so that the prompt payment of the forthcoming one may be fairly anticipated. We are confirmed in this remark by observing in the transfer list that since the last meeting may diversion (rather in direction than extent) of the great deposits of featil sken place, and the fall in the price of tin, and the occupation of he engines in drainage, which had prevented the expected access to the ish deposits already laid dry in the main Wheal Vor lode, the call would, in all probability, have been rendered unnecessary.

It must have been gratifying to the meeting to observe the steadiness and pertinacity with which the grand object of the undertaking—reached the great deposits of tin at the bottom of the old mine—had been kept a view, a

of a great success dawning upon this company, and that to an extent which the capital and confidence of such a body of proprietors, seconded by the exertions and skill of the staff, so richly deserve.

We learn from the Californian papers that considerable excitement had prevailed amongst the miners and settlers in Mariposa county, in consequence of an attempt by Col. J. C. Freenors and his agents to enforce a claim to the mines and mineral veins under a location known as the "Las Mariposas Grant." It appears that Col. Primory had a claim, under what circumstances it is immaterial to the roal point at issue to enquire, to a grant of ten aquare leagues of land, the Government, through lits Surveyor-General, officially determining the locality to be passessed by him. Strange to say, by a survey made in July, 1856, Col. Farkonyr's claim was located, to use the terms of the reports before us, on ands in the legal possession and occupation of citizens, who, under authority of the State, and the law regulating mining, had expended money and labour on their respective properties. The Mariposa Guzette contains the following exposition of the views of an influential correspondent, the Hon. S. N. INGS, upon the subject, which, being of interest, for the reasons we shall state presently, we embody:—

"It is well understood by all, that the real point in controvery between Farkovar and the people of Marposa is the mineral wealth contained in the soil. The original petition of Alvarado, upon which the grant is based, shows that agricultural and grazing lands, and not minerals, were the subject of the grant; that class of lands was intended to be confirmed to him by the Supreme Court, and the survey made in July, 1856, is a clear violation of that intention, and a frauduent law of the people of Marposa is the mineral wealth of the people of Marposa is the understood to the soil of California are the property of the State, and in the patent were consected upon among the property of the property in the property of the property

assurance of the value of the security offered.

The telegraph announces the arrival of the Australian July mail. The letters are expected to be delivered this day, via Marseilles. She brings advices from Sydney to the 18th, and from Melbourne to July 22. Violent opposition is represented as being shown to the Crown Lands Bill, which we apprehended would be the case, and will lead, no doubt, to serious disturbances. The tranquility of the colony of Victoria had also been disturbed, by an affray between the Chinese and Europeans at the gold diggings at Buckland; about 1500 of the former are said to have been driven into the bush by 300 of the latter population.

The production of gold is increasing, and the amount exported from Melbourne up to July 18 was just under 6,000,000. Speculation, which was rife at the date of our last advices from the capital of Victoria, had subsided considerably, but Government securities and bank shares maintained their price. The value of wool had fallen 2d. per lb., but in the London market it has recently risen to the same extent. Sydney sovereigns had been declared a legal tender in Victoria. From South Australia, we do not learn even the date, but we presume it is to July 17 from Adelaide. The fact that the July mail from the Australian colonies has arrived is important, for it will be in the recollection of our readers that, on receipt of the June mail, several of our contemporaries, both daily and weekly, expressed their opinion that thenceforth, for some time, there would be great irregularity in the departure of the mails from our Australian colonies, and that none would leave until September; but we contended, in the adverse sense, and pointed out our reasons for so doing, in an article in our Journal of Aug. 29.

The view we took of the question is now proved to have been quite correct, for the Post-office authorities in Sydney and Melbourne have dispatched the July mail. It is true that the Columbian did not leave Sydney until July 18, and Melbourne July 22, instead of t

The arrivals from Australia, by a long sea voyage, during the week have been prolific in their cargoes of the precious metal. The Star of Peace, the Sardinian, the George Marshall, the Summer Cloud, and the Angle-Saxon have resched their destination. The value of their collective freights of gold is 340,5121., of which 91,522! has been brought by the first-named vessel, 19,869! by the second, 98,130! by the third, 31,800! by the fourth, and 92,200! by the 1st. In addition to these receipts, 373,000! has come forward by the mail steamer Columbian, and is now on its was from Alexandria to London, so that the whole amount to hand, it

may be said, from Australia is 713,512. We may, moreover, calculate on the prompt delivery of no less than 450,800, more, for two vessels are on their homeward voyage from Melbourne, and have been at sea beyond their ordinary time of making the passage. The True Briton has been out 97 days; and the Montmorrency, 94 days; the aggregate of their cargoes of precious metal is as stated, and five merchantmen are now about due from the same ports, with a further collective freight of 1,093,880/. The Norfolk, one of the vessels in the category, has 343,880/. on board; and the Avon, Red Jacket, King Philip, and Ocean Chief, have about 750,000/. amongst the four. From Sydney, three or four ships are likewise overdue, and the shipments are supposed to be equal to 100,000/.; so that with what has come to hand during the week, and what may be relied upon within a very limited period, no less than 1,907,392/. will have been delivered from Australian ships, and the produce of the different Australian gold fields. Apart from the Australian shipments of the precious metals, arrived or on their way, we have this week received 246,120/. from other parts, so that collectively, the delivery of specie since our last publication has been no less than 860,432/. The Atrata, from the West Indies, has brought 174,000/.; the Tagus, from the Peninsula, 3,120/.; the Arabis and North Star, from New York, the firmer with 11,000/., and the latter with 40,000/.; and the Albion, from Boulogne, 18,000/.

While on the subject of gold imports it will be interesting, and indeed important, to mention that gold mines to the north of Sydney have been reported by the Government Commissioners as not only discovered but proved, on working, to be remunerative. A party of five men, it appears, in one working week, had obtained the precious metal to the value of 1400/. The gold, it is stated, is found from 10 to 15 ft. from surface in this district, and appears in large quantities. To the south of the same colony of New South Wales, it is likewise asserted

A company is in course of formation in London, for the purpose of establishing direct postal intercourse between Melbourne and Auckland, that the bags from Europe may be distributed promptly throughout the various provinces of New Zealand, and consequently without that delay which is now occasioned by the letters being first sent from Melbourne to Sydney, and thence forwarded to Auckland. When the matter is more matured we will give necessary details, but at present it is merely a plan suggested that New Zealand may participate more freely in the advantage of the overland route via Suez. This contemplated arrangement of a direct communication between Melbourne and Auckland is totally irrespective of the proposed route via Panama, which is at present in abeyance, inasmuch as the home Government has not yet come to any definite understanding with the existing companies, which are under contract for the route via Suez.

Western Australia.—Two additional copper mines have been discovered in the Champion Bay district, and they are said to be of extensive yield and rich ore. Increased quantities of pig-lead continue to be raised at the Geraldine Mines, near Port Gregory. The mining districts generally are represented as absorbing the greater part of the limited amount of labour in this province—so much so, indeed, that they are dependent in a great measure on South Australia for grain and flour; and, with a view of inducing the inhabitants to give more attention to agricultural pursuits, the members of the Chamber of Commerce, in their last report, express their opinion that it is expedient to put a protective duty on the importations of Adelaide wheatand flour. They add, "that although duly impressed with the liberal sense of the principle of free-trade, they conceive it advisable to protect the production of their own grain."

# THE MINING AND INDUSTRIAL INTERESTS OF CORNWALL.

[FROM OUR CORRESPONDENT IN WEST CORNWALL.]

SEPT. 17.—The copper standard is considerably higher than it was in September last year, and from the larger profits consequently accruing to copper mines, it might be reasonably presumed that there would be more investments in dividend mines, and more purchases in progressive mines of good promise, than there were at this time twelvements. But, un-

opper mines, it might be reasonably presumed that there would be more investments in dividend mines, and more purchases in progressive mines of good promise, than there were at this time twelvemenths. But, unfortunately, the long depression of the money market, and the present unsettled state of our Indian affairs, combine to deter capitalists from embrking in mines, and in many other undertakings, until things assume a more favourable aspect. Although, therefore, metals are in good demand, and likely to attain a yet higher price, and the price given for copper ores is a good and remunerative one at the present time, still the business done in mining shares is not equal to what might be expected, and to what has taken place in some former years when there has been a good standard. The standard is now equal to what might be expected, and to what has taken place in some former years when there has been a good standard. The standard is now equal to what it was in Sept., 1855, during the Russian war, when cake copper was at 1264, per ton; and, consequently, we may expect that the price of cake copper will again soon be advanced to that amount. The standard, also, being so high, is likely to excite a more active business in mines, in the last quarter of the year, than has lately been transacted.

With the exception of West Seton and Wheal Buller, most of the dividend-paying copper mines have lately declined in price, thus affording a good opportunity to capitalists, who may be inclined, after due investigation, to purchase shares. The main lode at West Seton continues very rich, and shares are from 2304. to 330, At Wheal Buller account a dividend was declared of 74. Us, per share, and the bulance in hand increased; the mine is reported to be looking well. South Farnases shares are about 2564, and it is likely they will advance when other levels are extended to the mines in solving favourable in the shaft. East Alfred about 44. Wheal Margaret continues to do well; shares are about 667. Porkellis United about 57. look

the line up to Midsummer last is 1,082,391%. It is stated by the directors

the line up to Midsummer last is 1,082,3911. It is stated by the directore that the company will have no difficulty in borrowing 300,0001, which they require to complete their line, on the associated companies—Great Western, Bristol and Exeter, and South Devon—guaranteeing interest thereon at 5 per cent., which those companies have agreed to do. From Liskeard the line is nearly ready for laying the rails, and from Liskeard to Plymouth, it is in a forward state; so that the chairman of the company, Mr. Michael Williams, M.P., considered himself justified in stating at the recent half-yearly meeting that the line would be opened for traffic before the end of next year. Should this be effected, the industrial interests of Cornwall will receive a very benefical impulse.

On the West Cornwall line the traffic has slightly increased in the last half-year, except in the case of copper ore, in which there is a considerable falling off. The line does not at present pay dividends, having made a profit of only 34684, on the last half-year's working. The expenditure has been increased partly in consequence of some accidents, and partly from the fact of Barlow's patent rails, with which the line is laid without wooden sleepers, requiring more rivets and ballasting than were at first placed. The company expect to get a better revenue when the Cornwall Railway is opened; the West Cornwall being now an isolated line.

The agricultural interest of the county is doing well. The month of August was one of the most favourable for harvesting that has ever been known. The temperature was very high, scarcely any rain fell, and the wheat was secured in first-rate condition. In the north-enst of the county there are complaints of a deficient yield; but in other parts, as far as yet ascertained, the crop is over an average, and of good quality. The barley is not so good a crop, having considerably failed in Cornwall this year. The out crop is a very good one. The potatoes are much diseased in different parts of the county. The mangold w

#### THE IRON AND COAL TRADES OF STAFFORDSHIRE. [FROM OUR CORRESPONDENT IN WOLVERHAMPTON.]

SEPT. 18.—The improvement in the demand for iron, especially for the home market, continues, and the trade is more animated than it has been since the commencement of the present quarter. The only kind of iron for which there is not a good demand is rails, but as that department of the trade has long ceased to be carried on to any large extent in this district, it does not seriously affect the trade here. The excellent demand now experienced is the more remarkable from the fact that the demand from Calcutta has almost ceased. A statement published in the Midlan Counties Herald, shows that whilst the exports of iron from Liverpool to

from Calcutts has almost ceased. A statement published in the Midland Counties Herald, shows that whilst the exports of iron from Liverpool to Calcutta and Madras in August, 1856, amounted to 2042 tons, there were only 535 tons exported thither in August of this year. To Bombay there had been a slight increase, and to China a slight decrease. From America, too, orders continue but alack as yet; and, therefore, to the improved demand, and the orders from the Continent, must be ascribed the recent increase of orders. There is now no doubt that present rates will be maintained at quarter-day, which at one time was somewhat doubted, as very few have strictly adhered to them of late. In the iron foundries and hardware trades an increased degree of animation is spoken of. Pigs are said to be a shade firmer, and ironstone to show signs of a slight advance.

The Coal Trade is active, but prices remain unchanged; the increased supply, at present, keeps pace with the growth of the demand. An event of considerable interest in this district has become known to the public this week. The well-known firm of the Messrs. Bagnall undergoes an important change, owing to the retirement of Mr. Thos. Bagnall and his sons from the business, which is hereafter to be carried on by Messrs. William and James Bagnall. The firm is well-known both in and beyond this district, not merely on account of the great extent of their operations at their various works and collieries, but also for the noble benevolence which they have ever displayed in the promotion of the well-being of the large mass of people to whom they stand in the relation of employers. Scarcely a church of the many which have been erected in South Staffordshire within the last dozen years but has been largely assisted by their contributions, and in connection with their own works they have provided schools and chaplains, the latter of whom visit the colliers in the mines, and hold religious services amongst the workmen. As masters they are highly esteemed, and rare indeed is i

of the population.

The inquests on the bodies of the unfortunate men killed by the late the basis of a satisfactory conclusion as to the cause of the explosion have been opened, but, as yet, no evidence sufficient to form the basis of a satisfactory conclusion as to the cause of the explosion has been adduced. The principal enquiry is adjourned to Monday next.

#### REPORT FROM YORKSHIRE, DERBYSHIRE, AND LANCASHIRE. [FROM OUR CORRESPONDENT IN CHESTERFIELD.]

SEPT. 17 .- The Iron Trade of the past week in these shown a degree of improvement which must be regarded as exceedingly satisfactory, considering the position of affairs in India, and the combined causes which for some time past have kept up the money market The demand for home consumption is steadily increasing, whilst the requirements for the Continent have continued large, except for India

quirements for the Continent have continued large, except for India. There is a good enquiry for railway iron, particularly rails, in consequence of several large contracts which have recently been given out. The Coal Trade is not so active as is usual at this season, but the demand, it is expected, will increase in the course of a fortnight, when the autumn requirements will be more numerous. There is a great increase in production in the South Yorkshire and North Derbyshire diatricts, and numerous collieries are springing up. A large amount of employment will be afforded by the commencement of the Dunston and Barlow Coal and Iron Company, near Chesterfield, whose works are now being pushed forward with great activity. There is a great want of house accommodation, and those persons who have capital unemployed, or have invested at a small interest, would do well to turn their attention to this locality. The proprietors of the works offer to pay 6½ per or have invested at a small interest, would do well to turn their attention to this locality. The proprietors of the works offer to pay 6½ per cent. for any number of houses which capitalists may build for their workmen, and they will lease them for a period of 20 years. This is a sign of the rapid increase of the mineral development of North Derbyshire. We may expect in the course of a short time that a very large trade will be done in coal; and now in this locality Messrs. Firth are character that it steel iron-works which are constructed on a German patent principle, which, up to the present time, has acted well. By means of a branch rail the coals are brought from the pit's mouth

by means of a branch ran the coals are brought from the part of the works.

The Eckington coal, under the estate of Sir Renaby Sitwell, Bart. is being worked by Messrs. Wells. A shaft is being sunk at the extensity of the park, and a branch rail is being formed to connect it with the main line of the Midland.

the main line of the Midland.

Mr. Benjamin Biram, of Rotherham, has suggested an improvement in machinery for washing coals and other minerals. The coal or mineral is placed in boxes or receptacles, with bottoms of wire, cloth, or perforated metal, supported on a frame of iron, and with a loose frame of iron bars fitting in the inside, about 3 in. of the bottom.

The town of Rotherham has earned some notoriety for the excellence of its stoves and grates, and we may state, without fear of contradiction, the largest emprojum for stoves and grates in this country.

of its stoves and grates, and we may state, without fear of contradiction, that it is the largest emporium for stoves and grates in this country. Messrs. W. Corbitt and Co., of the Masbro' Works, have manufactured a large quantity for the Government House at Melbourne, after the model of Mons. Morett, a gentleman who was for some time employed in the principal Sheffield houses. The stoves to which we refer are works of high art. They are 4 ft. 6 in. high, burnished steel, over which is dispersed an ornamentation, in ormolu, of the period of Francis I. There

are cornice pieces at the top. The fender is more ernamental still, and a vase is introduced on each side, with good effect.

There is the same activity going on in Dorbyshire with regard to lead mining as we have had to notice for some time past. The Eyam Mine will have a sale soon; but it will not be as large as usual, on account of an accident which happened to the machinery, which delayed the getting of the ore. The mine is working well, and apparently as rich as ever: the shares are firm. Chapel Dale shares are improving in value, and are realising a good premium. The North Derbyshire Company are opening the old Calver Sough, and pursuing some mining operations at the Wren. Park, which is looked upon as an improving property. The Stoneyway Company are pushing forward with their engine, and it is expected that in about a month they will be at work.

The Mill Dam Mining Company are in treaty with the proprietors of some adjoining property, and as soon as the necessary documents are

t a month they will be at work.

Mill Dam Mining Company are in treaty with the proprietors of 
joining property, and as soon as the necessary documents are 
d they will commence working with vigour.

some adjoining property, and as soon as the necessary documents are prepared they will commence working with vigour.

At Bolton, on Monday, Mr. James Hardenatle was summoned by Mr. Dickinson, the Government Inspector of Coal Mines, for neglecting to provide a proper steam-gauge for the boiler at work at the Roadside Pit, Breightmet. It appeared that the gauge used was a "Salter's spring balance," which the Inspector contended was not a proper steam-gauge within the meaning of the seventh general rule of the Coal Mines Inspection Act. It was necessary that the gauge should represent the prossure of steam at all times, whether there was too little or too much; this indicator did not do so without a mechanical operation on the part of the engineer. The gauge should represent the pressure to the eye without any operation by the person in charge of the engine. Mr. Hardeasile contended that the indicator was a proper gauge, and had been used for some years with perfect auccess; it was simple and safe, and he did not wish to be driven from its use at the caprice of any one. The mitigated penalty of 11., with costs, was imposed. Mr. George Barnes, agent for Mesers. Knowles and Stott, was summoned at the same time by Mr. Dickinson for not having provided proper means of signalling at the bottom of the shaft of a mine in Kersley. If appeared that the shaft was being sunk deeper, and that the mine was yet in an unfinished state; that the up signal had been completed, The Inspector had given no notice, and the case was dismissed, Mr. Dickinson having to pay costs.

# REPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

SEPT. 17.-We announced a few weeks ago that a notice had be sted at the Pontnewynwydd, Golynos, and Varteg Works, intimating that the whole of the hands would be discharged after a date affixed. The term of the notice expired on Monday last, but we are happy to say the

that the whole of the hands would be discharged after a date affixed. The term of the notice expired on Monday last, but we are happy to say the dispute which caused it has been settled, and the men returned to their work on Tuesday morning. Intimation, it appears, was originally given of the intention of the proprietors to reduce the wages, but this only applied to the puddlers. The latter complained that the iron was not so good as that to which they had been accustomed at Nant-y glo, but both causes of difference have been satisfactorily removed, with the result mentioned. A passage in the report of Mr. Herbert Mackworth has called forth a good deal of remark. The incident is related to have taken place after the Coalbrook Vale explosion, and the hero is a fireman mamed Hopkin Lewis. Mr. Mackworth says:—"The friends of the men in the pit pressed Hopkin Lewis, the fireman, to descend the upcast pit, by which the firedamp was issuing; he replied, 'If I go down, I shall never come up alive;' but, nevertheless, after shaking hands with the persons about the pit, he descended, with four other men. Two returned shortly afterwards, and two others were with difficulty rescued; but Hopkin Lewis, having gone far in advance, was not extricated for an hour and a half, when he was found to be quite dead." It certainly seems a pity to spoil so interesting an aneedote, but truth compels us to state that the occurrence never took place in the manner described. Hopkin Lewis did, indeed, go down the pit, and lost his life in consequence; but it is stated by those who were by his side before he descended, that he made use of no such words as those imputed to him. Some one fabricated them after his death, and they were spread about in the neighbourhood, but his own fellow-work men looked upon the story as a sonserd, and are now somewhat astonished to find Mr. Mackworth giving it the weight of his authority.

The attempt to dispose of the collieries at Bristol by Mr. Watkins, of Cardiff, on Thursday last, turned out a failure. T

Intelligence has been received of a disturbance having taken place among the colliers working at Cwmsserbron, Ystradyfodwg, which appears to have originated in a drunken brawl between the Welsh and the Irish. Beyond putting a temporary stop to business, no serious mischief was

occasioned.

The advantages of the new landing-place attached to the Neyland terminus of the South Wales Railway, alluded to last week, are already felt. The inconvenience formerly felt by passengers who arrived from Cork and Waterford has now ceased, and every facility is afforded for embarking and disembarking. We understand it is the intention to add an additional pontoon, in order to provide the requisite accommodation for the Grea-Eastern. The work, it is expected, will very shortly be commenced, and

carried out.

Trade remains in much the same state as when we last reported. The
demand for all descriptions of iron is good, and producers find themselves
actively engaged. The Coal Trade is steady, and for steam coal a brisk
enquiry continues to exist.

#### INDUSTRIAL PROGRESS ON THE CONTINENT. [PROM OUR PARTS CORRESPONDENT.]

Supr. 17.—The demand for iron has somewhat improved, and the trade enerally is becoming more active than it has been. It is asserted that contract has been passed for 300 tons of pig-iron at 155 frs., but beyond this there has been no material variation in prices. It will be recollected that at the preceding meeting of ironmasters at Besancon, it was connected that at the preceding internal state of the sta cussion with regard to prices.

Among the ironmasters of Champagne the utmost consternation pre-Among the ironusaters of Champagne the utmost consternation prevails, in consequence of some works having purchased charcoal at the same price as when pigs were 30 frs. dearer than they are to-day. Prices, however, have not varied much, as you will perceive by the following list:—Forge pigs, 150 to 165 frs.; pigs for the second metting (No. 1), 180 frs.; ditto (No. 2), 170 frs.; charcoal rolls, 330 frs.; rods (No. 21 and above), 390 to 400 frs.; ditto (No. 20), 410 frs.; hammered iron (demi-roche), 370 to 390 frs.; axles (3 to 10 kilos.), 450 to 460 frs.; ditto (10 to 15 kilos.), 420 to 440 frs.; ditto (15 to 99 kilos.), 390 to 400 frs.; ditto (10 to 15 kilos.), 420 to 440 frs.; plates (90 to 108 millmetres thick), 420 to 440 frs.; smith-iron (plates and bars), 390 to 400 frs. 300 tons of pigs were recently sold at 165 frs., and a large order, at long dates, accepted for 150 frs. The works are becoming more active, in consequence of the partial cessation of drought; and orders for merchant iron are tolerably abundant. In other metals, English copper stands firm at old prices—Russian, 330 to 350 frs.; Lake Superior, 330 frs.; Chili, 310 to 312 frs. 50 c.; Corocaro, 315 frs.; sheets, 360 frs. Tin (Bancs), 380 frs.; Straits, 377 frs. 60 c. Spanish lead, 68 frs.; sheets, 78 frs. Spelter, 30 frs.; and sheets, 100 frs. The total amount of capital subscribed, or engaged to be subscribed, in various enterprises is no less than 212,318,0322.; and, perhaps, half as much again has been spent in foreign schemes. Of this enormous sum 8,144,6001 has been expended in metal mines, 7,048,2001 in coal mines, and 5,872,0001 in other mines, or in what I fancy should be more cor-

rectly denominated quarries. Now, with all due deference, Mr. Commissioner Fonblanque, I do not think mining enterprise has had more than fis fair share of this outlay.

The Belgian motal market continues in an excellent position. The Journal de Charleroi states that the demand, especially for merchant iron, is good, both for consumption and for exportation; and, of course, while this state of things continues, there will be no disposition on the part of the ironmasters to accept lower rates. In the manufacturing department there is nothing to complain of. The new steel factory at Couillet is now in full operation, and in a position to supply cast-steel of all qualities. Good iron ore is realising a fair remunerative price. The coal trade is brisk, and a large number of orders is being daily executed, and, from all appearances, will have a struggle in future with their powerful rivals—the Charleroi and Louvain and the Northern Railways.

Siledum.—Several alloys of eilicium and other metals were effected. SILDIUM. -Soveral alloys of silloium and other metals were effected

by Messre. Sainte-Claire Deville and Caron, and their properties careby Meisrs. Sainto-Claire Deville and Caron, and their properties carefully examined. Alloyed with iron, silicium was found to play the part of carboa, and the results were very fusible pigs or steel bars. At the request of Colonel Tremille de Benulieu, director of one of the scientific establishments attached to the Commission of Artillery, researches where made to discover an alloy for guns which would be tough, hard, malleable to a degree, and not likely to run under my heat to which it might be liable when in use. The result of these researches was the production of a silicide of copper, or, as the author terms it, of steel-copper. It was remarked in the course of early experiments that in obtaining silicium from chloride of silicium and sodium, in copper vessels, that the latter became covered with a layer of white suetal, hard enough to resist a file. It was a silicide of copper, which may now be obtained in considerable quantities, with very great case. An alloy, which is very hard and brittle, of chloride of bismuth, and containing 12 per cent. of silicium, may be obtained by melting together three parts of fluosilicate of potassa, one part of sodium, and one part of copper, at such a temperature, that the metallic bath may become covered with scoria. The copper takes up a large proportion of silicium, which is set free in this operation, and forms a white substance, more easily flushle than silver. This compounds serves as a starting for the manufacture of other alloys. But before noticing them, it may be as well to remark here that in the operation just described the fluosilicate of potassa may be replaced by a mixture of sand and sea salt. The reduction in this case is more difficult. The scoria, to which allusion has been made, is of two kinds; one light, fluid, and transparent, which is thrown aside; the other pasty and dark, which, when remelted with copper, gives a white silicide. High temperature is however, required to produce the alloy. An alloy containing 4 sper cent. of silicium, and turned a fully examined. Alloyed with iron, silicium was found to play the part

of alicium, and the other a larger quantity of this metal, and are instances of the facility with which this new alloy may be worked.

The publicity which has been given to the invention for stopping rail. Way trains at present in general use on the Orleans Railway, and attributed to M. E. Guerin, C.E., of Paris, has provoked the publication of a letter by M. Lefevre, who states that in 1844 he patented a self-acting break, after 15 years' devotion to the subject of preventing railway accidents. He improved upon his first idea in 1849, and took another patent for it. Six years were allowed to pass before he could induce the Government to take up the matter. At the end of that time they did so, and the invention was ordered to be tested on the Strasbourg Railway. M. Lefevre states that he neglected in one instance to pay the annual tax of 100 fr. (£4), and that M. Guerin, profiting by the omission, has succeeded, through the influence of M. Polonceau, Director of the Orleans Railway, in taking a similar patent to his, and getting it adopted on that line. To prove the truth of this assertion, an extract of a letter from the Minister of Public Works, dated Sept. 24, 1856 (at which date M. Lefevre was presented with a pecuniary recompense by way of encouragement), is quoted, in which he says, "Although, Sir, your break has become public property by your neglect of the law, and several railways have adopted it, the Orleans Company in particular, I am most happy to bear my tentionally to be a my tention of the scellence, and to its having rendered immense service to the public, by giving greater security to railway travelling." In answer to M. Lefevre, it is asserted by M. Guerin that the two breaks are not identical: this, he adds, M. Lefevre knows to his cost; as, in an action brought before the Correctional Tribunal, he was condemned to pay 5000 fr. fine and 500 fr. damages. The Minister of Public Works recommends the adoption of his (M. Guerin's) break on all railways, and the Société d'Encouragement awarded him

identical: this, he adds, M. Lefevre knows to his cost; as, in an action brought before the Correctional Tribunal, he was condemned to pay 500 fr. dine and 500 fr. damages. The Minister of Public Works recommends the adoption of his (M. Guerin's) break on all railways, and the Société d'Encouragement awarded him their great gold medal for his invention, which is now employed on most of the French lines. Such tests should be sufficient to ensure M. Guerin's break a fair trial in England.

The first number of a very useful little directory for the consumers of steel has just been issued by M. E. H. Duhamel, of Rue Neuve-Ménilmontant, under the title of the Amusairs du Consommateur d'Acier, and it is proposed to continue its publication annually, so that its correctness may always be relied upon. After briefly treating of the manufacture of puldled, natural, comented, fagotted, and east-steel; the means of recognising the quality and description of steel; and such other little matters as are of importance to those employing the metal, by way of introduction, he gives a list of the principal steel manufacturers in France, England, Austria, Bavaria, Belgium, Prussia, Russia, Sardinia, and Sweden, stating what description of steel each country is most noted for, and the particular qualities that the several manufacturers produce. France is extremely well arranged, but the other countries must only be considered as giving an account of those doing a large export trade, with France especially. The trade marks used in each factory are given, and must prove useful to purchasers generally; as, where the respectability of the dealer guarantees the consumer against imposition by forged marks, they are decidedly the most ready means of judging of the article purchased, and the uses to which it is most applicable. M. Duhamel remarks, and certainly not unjustly, that it often happens that for certain uses an inferior priced steel is preferable to the more costly descriptions, and, therefore, it may be presumed that a knowledge

#### IRON SHIP-BUILDING-WILL IT SUCCEED? [FROM A CORRESPONDENT.]

At first sight it looks like a paradox, though it really is not so, to say it a splendid success creates a great misfortune, by raising a host of nitators and copyists, each endeavouring and promising to excel the her, and persuading others they can do so, ere the original be itself loved. It is, and always has been, the case in every business and prossion; by this reason that which was originally really good often becomes a parameter of the case in every business and prospersion is the case in every business and prospersion.

Railways, as a grand system, had they been carried out as originally propounded, would have paid investors well; but as soon as successed became probable, extensions became the order of the day—extensions were made to every available place; consequently land was purchased at fabulous prices, to appease wrong-headed landbords and quiet oppositionable place; and expense in appears defending the statistic for and expense the place. were made to every available place; consequently land was purchased st fabulous prices, to appease wrong-headed landlords and quiet opposition; legal charges in opposing, defending, pleading for and against, parlismentary expenses, evidence, and all the other mysteries and necessities know only to lawyers, were extravagantly undertaken, the bare idea of which would now even make a director, as well as shareholders, tremble, and all this from the mania consequent on a great success.

We hope the Great Eastern steam-ship will prove an exception to the rule. Had we not the foregoing instances, we might have supposed the very magnitude of the undertaking would have been a sufficient guarantee, which we admit it should be to any caim, reasoning mind; but when a mania for novelty seizes the crowd, these things are not considered as they should be.

In making these remarks, we are not to be supposed to refer to, or wish to discourage attempts being made to develope improvements or discovery; far from it: but when we see it now proposed to construct an iron monster ship at Liverpool, 1000 ft. long!—308 ft. longer than the Millwall wonder!—we pause. We shall not discuss the possibility or probability

of its we for as well great opinion are we but ex friends first as ship, and in The facture which haul a the deconclutheir

If a

S

(we ap years tecting

east-ir He or reparation to the form a serven for reparation to the from a siron to added he was a serven for ration oxide. Second ration it reparation in tropic allowed in the second ration oxide. Second for the larger steel.

SEPT. 19, 1857.]

The it iron, while part of riment is now alities, rade is rom all ivals

ffected s care-

At the ientific where lloable

ght bo tion of t was licium ter be-

a file.
derable
brittle,
may be
sa, one
sat the

n, and pounds before

ration ture of The duid, which, ture is,

r cent. n, may while while ture as o have ilicides ty. In cannon or cent. tro in-

g rail.

tion of acting y acci-patent he Go-

so, and y. M. tax of

on that om the Lefevre sent), is public adopted

ny tee-vice to answer are not

to pay recom-nd the his in-ch tests gland, ners of

ilmon-nd it is ss may ture of

of re-r little y of in-

France, ia, and ted for, roduce. only be e, with en, and tability

marks, le pur-nel re-

certain iptions, ers and work is ple field which

ginally accesses ensions aned at outtion;

parlia-

idea of remble,

sed the guaran-it when lered as

or wish covery; n mon-fillwall

dits being accomplished; we only mention it as proof of our propestion. We fear it looks like "the beginning of a commencement." It would be a well, at all events, to try how the Great Eastern answers. The is a great and costly experiment of itself. We have previously "pressed our opinion of the noble ship's capabilities: the more we see of it the more are we confirmed of the correctness of our views. "We cannot, however, but express a hope that no precipitate steps wi" he taken by any of our friends in constructing a facet of such entermous proportions, until the first specimen shall have proved the "casibility of its entire success as a ship, and the probability of a sim" ar result as a mercantile speculation and investment of capital.

That iron shipbuilding is fast becoming one of our national staple manufactures and employme, fast is well known. After many years' wear and tear, which in wooden ships would have required an extensive and expensive overhall and examisation, it has been proved the repairs are merely nominal, the delay triding. A well-known firm in Liverpool have giver most conclusive evidence on this point, when they state the repairs of one of their ships, after 13 years' service, stood them, except for everping and paiding, in the merely nominal sum of 134. The continual exidisation of iras by exposure to the action of the salts in sea water had been a serious objection, weeds adhering thereto, notwithstanding the continual correction; this, too, has been overcome by the patent substance invented by Mesers. Paacox and BuccanaAx, of Southampton, which, after repeated trials, appears fully to answer the double purpose of rendering scraping comparatively unnecessary, as well as preventing the accumulation of brancles of algoe of all kinds. Practical proofs like this are of more weight than a thousand conjectures, and whole volumes of speculative opinions, from whatever sources.

If a vessel, of either wood or iron, be run on a rock we can easily guess at the consequence; but when they remain th

and promotions of the procession of the control of the procession of the control of the probability of a same procession of the control of the probability of a same procession of the control of the probability of a same procession of the control of the probability of a same procession of the control of the control of the probability of a same procession of the control of the control of the probability of a same procession of the control of the control

Inon Ships.—Within the last few years an article has been introduced into the front trade called boat plates, or ship plates, being made sepecially for building ships, and is considered by the iron masters and shipbuliders good enough for that paperses, though for little size. Thirteen years ago my firm launched an iron ship: atthough iron was then very obeap she cost us nearly 35, per ton; but what was the result; Why, except for soraping and painting, we never laid out in the whole say low as any 14,-year wooden ship shoat. We are now building a small experimental ship, on an unproved mode of construction. We are now building a small experimental ship, on an unproved mode of construction. We are now building a small experimental ship, loss per ton. We preferred paying 111, for boiler plates. Lloyd's committee have lately deed that in fature all from ships must have the name of the maker of the tron stamped on each plate. So far well; but the surveyor should be a man who, by previous training, knows the makers of good iron from bad.—Cold Blast: Liverpool.

4

## THE MINING JOURNAL. WEEKLY LIST OF NEW PATENTS.

GRANTS OF PROVISIONAL PROTECTION FOR SIX MONTHS.—E. WHIT-AKER. Rochdale, A. LAW, Littleborough, J. Fletcher, Little Clege: Steam-engines.—S. CLIFT, Manchester: Purification of certain gases, and the application of their products to the manufacture of alum.—E. Luwn, Manchester: Cocks, valves, pumps, and water plugs.—W. Habitle, Eury, Steam-engines and steam-boiler apparatus.—H. Dircus, Moorgate-street: Improved fire-escape.—C. and J. Trousfoon, Green-bridge Foundry, Lanester: Discharging condensed water, air, or other fluids, from steam pipes, drying cylinders, and other apparatus where steam is used.—P. SENECE, Pendleton: Manufacture of sulphuric aoid, and in obtaining saits of ammonia thereby.—A. J. FLORIS, Orleans: Portable rails or ways to vehicles.—E. GREET, ign., and A. VAVIN, FATS: Improved electro-magnetic machine.—J. FRAIS, Rochdale: Regulating the admission of air to furnaces.—J. B. ATMA, Heckmondwike, W. Prarson, W. Spurn, Birstal: Railway signals.

Manufacture of Charolal and Coke.—Mr. Ebenezer Rogers read a very interesting paper on this subject before the Institution of Mechanical Engineers, in which the history of charcoal burning, and the coking of coal is well given. The most important part, however, of the paper is his description of his application of the west important part, however, of the paper is his description of his application of the westphalian charcoal kiln to the coking of coal. He has succeeded so far, that instead of coking 6 tons of coal in an oven that cost 80%, he is enabled to coke 150 tons at ouce in a kiln cesting less than the former single oven. From the discussion which took place after the reading of the paper, it appears that a great source of expense in the ovens was the heavy cost of repairs, in consequence of their complicated construction of fire-brick and ironwork, but the new kilns being built in the simplest manner of rough rubblework, with only a pital lining of fire-brick, and without any ironwork, reduced the expense of repairs to a very small sum. In the kilns natural means were employed to effect what had been socomplished in the closed ovens by artificial plans; in the latter a waste of coke arose from the sir cutting across the surface, and burning away a considerable portion during the process of ooking, the prevention of which depended on the air-tight construction of the ovens, but in the new kilns this loss was prevented by inverting the action; a considerable portion of the gaseous carbon was arrested and deposited again in a solid form upon the beated coke upon the bottom of the kiln, instead of passing off as gas, also the whole of the incandessent coke was enveloped in an atmosphere of carburetted hydrogen, carbonic oxide, and nitrogen gases, which would not support combuttion, and was thus protected from being wasted by burning. Only blast furnace coke has been made at present in the new kilns, but Mr. Rogers had that no doubt good lecomotive coke might be made in them by retarding the process, so as t

coks, and consequently of harder quality. The coke now made at Abereara was superior in quality to that made previously—a different seam of better coal being now worked. The ordinary cost of coking ranged from about 10d. per ton in the hemispherical overs, exclusive of repairs, to 18d, per ton, inclusive of repairs, in the improved and more expensive rectangular overs. In the new kiln the cost of working does not exceed 6d, per ton, as the nem only filled the coal direct into the kiln after laying the bottom flues, and in some places the coal is actually tipped into the kiln from the colliery wagons working at the higher level, and the coke wagons were afterwards run into the kiln, to be loaded direct from the heap of coke when burnt, thus reducing the labour of working to a minimum. It is anticipated that the new plan will save fally half the cost of coking, and will prove a valuable source of sconomy in the cost of locomotive firel, if the process can be estisfactorily applied.

HEATING POWER OF COAL.—In a paper read by Mr. Waller, of Lincoln, before the Institution of Mechanical Engineers, a series of experiments, with a view to ascertaining the heating power of coal, were referred to as having been made by the aid of a simple and effective instrument, invested by Mr. Jonathau Wilkinson, of Grimesthorpe, near Sheffield. The results obtained from the several descriptions of fuel experimented upon are subjoined; the figures showing the number of ibs. of water evaporated by 1 lb. of fuel:—

evaporated by 1 lb. of fuel:-	40.00
Charcoal for foundry blacking	12.20
Charcoal, oak	12-25
Charcoal prepared for electric light, very pure	12.50
Anthracite coal	13 00
Anthracite coal, average of two samples	13.10
Hard Yorksbire coal-Woodhouse	13.73
Wallsend coal-Yorkshire	14.8
South Yorkshire coal-average of seven samples	15.00
Weish coal	15-13
Silkstone cosl-Yorkshire	15.20
Gas coal near Chesterfield-first sample	15-50
Gas coal near Chesterfield—second sample	16:00

Gas coal near Chesterheld—second sample
Gas coal near Chesterheld—second sample
From these results it appears that the evaporating power of soal does not depend so much upon its containing a large proportion of carbon, as in the case of charcoal and Welsh coal, as upon the gaseous quality of the coal. In one case, with two qualities of Yorkshire coal, a 30 grain experiment made with this apparatus was fully confirmed by a 5 ton experiment with a steam-boiler; but in another instance the results did not agree, as a different sort of coal requires a different description of furnace, the ceals composed almost entirely of carbon requiring less air for combustion than the gaseous coals, and consequently requiring a smaller furnace and smaller flues. The result obtained from ocke, which is composed almost entirely of carbon, is low with the apparatus; whereas with a strong draught and proper furnace it would be high-

coals composed almost entirely of carboin requiring less air for combustion than the result obtained from coke, which is composed almost entirely of carbon, is low with a strong draught and proper furnace it would be high-the apparatus; whereas with a strong draught and proper furnace it would be high-the purchased by Government for use in the Royal Arsenal, made the journay from Thetford, in Norfolk, to Woolwich, on Thursday, drawing a lode of timber on four trusks, the foremest of which contained 11 tons 10 cwts.; the 2d., 10 tons 10 cwts., the 3d., 2 tons 10 cwts., the 4d., 5 tons

METROPOLITAN SCHOOL OF SCIENCE,

APPLIAD TO MINING AND THE AETS.

The PROSPECTUS for the ENSUING SESSION, 1857-58 (containing information about the Lectures, Labouatories, Fees, &c.), is READY, and WILL BE SENT, on application to TRENHAM REEKS, Esq., Museum of Practical Geology, Jermyn-street, London.

RODERICK I. MURCH180N, Director.

MINERALOGY.—KING'S COLLEGE, LONDON.—
PAOT. TENNANT, F.G.S., will COMMENCE a COURSE OF LECTURES
ON MINERALOGY. with a view to facilitate the study of Geology, and of the Application of Mineral substances in the Arts. The lectures will be illustrated by an extensive collection of upwards of 3000 specimens, and will begin on Wednesday morning, 7th October, at Nine o'clock. They will be continued on each succeeding Wednesday and Friday at the same hour. Fee, \$2.2s. R. W. JELF, D.D., Principally

THE DIRECTORS OF THE ISLE OF MAN MINING COMPANY (LIMITED) are open to receive TENDERS for the DELIVERY of 200 tons EEST SOUTH WALES STEAM COALS, on the South Side, Douglas Harbour, opposite their Stores, monthly, from the lat of November next, for tweive months, urder a penalty for non-fulfilment of contract, to be specified at the signing of the contract. The tenders to be addressed to Mr. WM. BECKWITH, Douglas, Isle of Man, on or before the 1st day of October, 1857.

REAT CRINNIS COPPER MINING COMPANY.—Notice is
hereby given, that, by order of the Committee of Management, a CALL of
ONE SHILLING per share, on the NEW SHARES of this company, is now made,
paysole at the office, 27, Austinfriars, on Wednesday, the 28d inst.
London, Sept. 2, 1837.

By order, WILLIAM CHARLES, Sec.

TO IRONFOUNDERS AND MACHINE MAKERS.-WANTED, for Copiano, Chili:

1. An AMALGAMATING MACHINE, for gold and sliver ores, very complete.
2. SEVERAL IRON HYDRAULIC WHEELS, suitable for a large smelling works.
3. MILLS, with VERTICAL MILLSTONES, for cruehing ores both with and with4. Good IRON STEAM BOILERS.
(out water.
Address, or apply before Eleven A.M., to Mr. B. LENOIR, Panton Hotel, Oxendenstreet, Haymarket.

TO WORKING COPPER SMELTERS.—WANTED, for Copiago, Chill, an INTELLIGENT and WELL-EDUCATED MAN, to MANAGE and SUPERINTEND the REVERBERATORY FURNACES, the FOUNDRIES, and the CALCINING of COPPER ORE. Long practical experience is desirable.—Address or apply before Eleven A.M., to Mr. B. Lemoir, Panton Hotel, Oxenden-street, Hymnerket.

STEAM PUMPS, FOR LAND AND MARINE PURPOSES, SINGLE or DOUBLE ACTING; sizes from 2% to 13 in. diameter, and from 4 to 18 in. stroke; by JOHN CAMERON. Used for feeding boilers, raising water (for reservoirs, tanks, irrigation, &c.), turning power, or as a steam fire engine. Works, Egerton-street, Hulme, Manchester.

DHURODE COPPER MINING COMPANY.-NOTICE.-HURODE COPPER MINING COMPANY.—NOTICE.—
The SOUTH-WEST OF IRELAND MINING COMPANY (LIMITED), consultated under the Joint-Stock Companies Act, 1856, having FURCHASED the DHURODE MINE, ALL PARTIES HOLDING DHURODE SHARE CERTIFICATES may EXCHANGE THEM for SHARES in the SOUTH-WEST OF IRELAND MINING COMPANY (LIMITED), each Dhurode Share Certificate of five shares representing \$15 st., and entiting the holder to a share of \$210s, fully paid-up, in the South-West of Ireland Mining Company (Limited), on payment of the other \$15 st. Claim must be made on or before the 24th inst., after which date it will be barred, and the shares otherwise allotted.

By order, J. CASH, Parsor, Dhurode Company's Office, 26, Throgmorton-street, Sept. 15, 1857.

TREDINNICK'S LIST OF PRICES OF BRITISH MINES, RAILWAYS, BANKS, &c., published weekly, and forwarded by post at a charge of £1 ls. annually. Fluctuations in market value faithfully recorded, with Comments on the progress of Dividend and sound Progressive Mines.

Gresham House, Old Broad-street, London.

WHEATLEY KIRK'S IMPROVED PORTABLE UNITED ENGINE AND BOILER.—To parties requiring engine power, and wish to be able to take it with them when their lease or tenancy expires, contractor manufacturers, miners, farmers, &c., WHRALLYK KER FROOMMEND BY NEW a JMPROVED FORTABLE UNITED ENGINE AND BOILER, which can be remore strates with the greatest facility, and not a particle of brickwork required. The united engines and boilers are being made from 3 to 20-horse power. Drawing tracings, and specifications seem to any part of the United Kingdom or Continent. Also, IN STOCK, a variety of Engineers Tools, Lathes, Drilling Machines, 8k ting, Planing, Punching, and Shearing ditto, Serwing ditto, Nut Cutting dit Stocks, Taps, Dies. Horizontal and Vertical Engines, from 2 to 100-horse power. WHALLY KIER, Engineer, &c., Central Offices, Cross-street, Mannetser; Wor and Stores, the Wellington Works, Bonded Wharf, Chapel-street, Saiford.—N. B. At ioneer and Valuer of every description of Mill Work, Plant, and Machinery.

OUTH-EASTERN RAILWAY.—CONTRACT FOR THE SUPPLY OF STORES, from the 30th September, 1857, to 31st March, 1858.
The Directors are prepared to receive TENDERS for the SUPPLY of the undermentioned STORES, viz.:— No. of Contract.

8. Varnish paint, drysaltery, &c.

9. Ropes, carvas, bags, cotton wasts felt, &c.

10. Coach trimmings, carpeting, cloth horse hair, towellings, &c.

11. Leather, hose pipes, straps, &c.

12. Brushes, brooms, mats, &c.

13. Timber, deals, wood work, &c.

14. Sundries.

nentioned STORES, viz.:—
ie. of Contract.

1. Oils, tallow, turps, &c.
2. Ton, axles, tyres, forgings, &c.
3. General frommonger, tools, &c.
4. Files, steel, springs, &c.
5. Sheet brass, brass and cupper tubes,
finished brass work, &c.
7. Tin, tin work, lead, sine, and other
metals.
Glass larges large materials &c.
Glass larges large materials &c.

7. Glass, lamps, lamp materials, &c.

7. Glass, lamps, lamp materials, &c. | 14. Sundries.

Specifications and forms of tender may be had on application in writing to the storekeeper, London Bridge Terminus.

Forms of tender for each contract are printed separately, and parties applying should state the particular contract for which they propose to tender.

Patterns may be inspected on and after the 18th inst., at the Stores' Office, Brick-layers' Arms Station; and any further information required may be obtained at the Storekeeper's Office, London Bridge Terminus.

Tenders to be returned on or before the 24th inst., endorsed "Tender for Stores," addressed to the scretary, London Bridge Terminus.

S. SMILES, Sec., London Bridge Terminus.

CALEDONIAN RAILWAY.—At the TWENTY-FIFTH HALFYEARLY GENERAL MEETING of the Caledonian Railway Company, held
in the Merchanta' Hall, Glasgow, on Tuesday, the 15th day of September, 1857—
WM. JOHNSTON, Esq., Chairman of the Board of Directors, in the chair,

WM. JOHNSTON, Eaq., Chairman of the Board of Directors, in the chair,
The advertisement calling the meeting having been read, the common seal of the
company was attached to the registers of proprietors in presence of the meeting,
The following resolutions were passed:—

1. That the report of the directors, together with the balance-sheet and statement
of accounts laid before the meeting, be received and adopted; and that dividends be
now declared for the half-year ending 31st July, 1857—on the preference stock of the
company, at the rate of £4 lbe, per cent. per annum; on the 4 per cent. preference
half shares, at the rate of £5 per cent. per annum; on the 5 per cent. preference
half shares, at the rate of £5 per cent. per annum; on the ordinary consolidated stock of
the company, at the rate of £5 ber cent. per annum; on the ordinary consolidated stock of
the company, at the rate of £3 be, per cent. per annum; less income-tax in each
case, and all payable on the 29th day of September current.

2. That Thomas Shakeld, Eaq., who retires from office by rotation at this meeting,
be re-elected one of the directors of the company.

3. That Thomas Shakeld, Eaq., who retires from office by rotation at this meeting,
be re-elected one of the directors of the company.

4. That Thomas Shakel, Eaq., who retires from office by rotation at this meeting,
be re-elected one of the directors of the company.

5. That John Fleming, Eaq., accountant, Glasgow, be elected one of the auditors of
the company, in the room of George Readman, Eaq., who has retired.

6. That the balance of £1203 13s. 39:4d. of the revenue excount of the Lesmahagow
Branch Railway to 3ist July, 1857, be applied towards payment of the 5 per cent. due
to the holders of the class A shares, from the dates the calls on these shares respecvely fell due.

5. That John Fleming, Eaq., accountant, Glasgow, be elected one of the supplications
Parliament as may be necessary thereupon.

6. W. M. JOHNSTON, Chairman.

6. All Elonian Railway Company, and to concur in makin

CALE ONIAN RAILWAY.—At an EXTRAORDINARY GENE-Hall, Glasgowon Tuesday, the 15th day of September, 1837,—beld in the Merchants' WM. JOHNSTON, Esq., Chairman of the Board of Directors, in the chair,

The advertisement calling the meeting having been read, the following resolutions

The advertisem t calling the meeting having been read, the following resolutions were passed:

1. That, under the overs of the following Acts relating to the Lesmahagow Branches —vis., the Caledoniah Railway (Motherwell Branch Extension) Act, 1847; the Caledoniah Railway (Lesmahagow Branches) Act, 1847; the Caledoniah Railway (Lesmahagow Branches) Act, 1851—the sum of £13 000 which the Company are authorised to raise as a separate stock, denominated th Lesmahagow Branches stock, be raised by the creation of 3000 shares of the nominal-gauce of £50 each, denominated Lesmahagow Branches shares; that the creation of \$900 shares class A. which are entitled to a preferential dividend out Other profits of said branches, in terms of the said Caledonian Railway (Lesmahagow Branches) Act, 1854, be and is hereby confirmed. That the remaining 1100 shares of £50 each (including therein 200 class A shares), representing £55,000 of the said Leshahagow Branches stock, be and are now hereby reseated; and that the directors be and 56,50 each (including therein 200 class A shares), representing £55,000 of the said Leshahagow Branches stock, be and are now hereby reseated; and that the directors be and are now hereby on the whole of the said 3000 Lesmahagow Branches shares, so a sire advantage to the persons who have become bound, or may becafter become bound, to advance the amount thereof, and to make calls on said shared such extent as they may find necessary.

2. That as soon as one-half of the said share capital of £150,000, authorised by the said Caledonian Railway (Lesmahagow Branches) Act, 1851, shall have been paid up, the directors be, and are hereby, authorised to borrow upon mortgage, under the powers af the Caledonian Railway (Lesmahagow Branches) Act, 1854, on the security of the undertaking authorised by that Act; and, if paid up, again to borrow any sum or sums of money not exceeding in all the sum of £20,000.

ALEDONIAN RAILWAY.—At an EXTRAORDINARY GENE-RAL MEETING of the Caledonian Railway Company, held in the Merchants' all, Glasgow, on Tuesday, the 15th day of September, 1857,— WM. JOHNSTON, Esq., Chairman of the Board of Directors, in the chair, The advertisement calling the meeting having been lead, the following resolutions

The advertisement calling the meeting having been lead, the following resolutions were passed:—

1. That the sum of £60,000, which the company are authorised to raise under the powers of the Caledonian Railway (Granton Branches) Act, 1857, be raised in terms of said Act, by the creation of 1200 shares of the nominal value of £50 each, to be denominated Caledonian Railway (Granton) shares, which vill be a separate stock, denominated Caledonian Railway (Granton) stock, and shall not form part of the general capital of the company; and that the said 1200 shares by, and now are, created accordingly; and that the directors be empowered to allot and issue the said shares as follows—vix., \$60 shares to this Grace Waiter Francis, Dute of Buceleugh and Queensbury, and the remaining 600 shares to the persons who have become bound by the subscription contract, or may hereafter become bound, to advance the amount represented by the said shares for the construction of the work autherised by said Act.

2. That, as soon as the saids sum of £60,000 shall have been subscribed, and one-half thereof paid up, the directors be, and are hereby, authorised to borrow, on mortgage or bond; and if paid up again, to borrow, under the powers of the said Caledonian Railway (Granton Branches) Act, 1857, any sum or sums of money, not exceeding in all £20,000.

WM. JOHNSTON, Chairman. ARCH. GIBSON, \$80.

INABES LEAD MINING COMPANY.—Notice is hereby given.

INARES LEAD MINING COMPANY.—Notice is hereby given, that, in conformity with the Deed of Settlement, the HALF-YEARLY GENERAL MEETING of the shareholders in this company will be HELD at this office on Tuesday, the 29th inst., at Two o'clock r.w., to receive the accounts, balance-sheet, and reports of directors and auditors, for the half-year ending 30th June last, and for the general purposes, as authorised by the Deed of Settlement.

The Board of Directors have resolved.—That a DIVIDEND of SIX SHILLINGS AND EIGHT PENCE per share be declared on the paid-up shares of the company, payable on the 17th day of October next; and that the Transfer-hooks be closed for such dividend on the 30th inst., and re-opened on the 19th day of October.

By order of the Board, J. B. COLOGAN, Sec. 5, Queen-street-place, Upper Thames-street, London, Sept. 14, 1857.

THE GREAT BARRIER LAND, HARBOUR, AND MINING COMPANY (LIMITED).—In 10,000 shares, of £5 each.

Deposit, 10s. per share at the time of application, and 20s. per share upon allotment. Prospectuses can be obtained at the office, No. 117, Bishopgate-street Within London.

INVESTMENT .- Messrs, FULLER and CO.

NY EST MENT.—Measrs. FULLER and CO., 51, THREADNEEDLE STREET, LONDON, continue to TRANSACT BUSINESS in BANKING, MINING. BAILWAY, and OTHER SECURITIES, many of which will safely
pay from 15 to 25 per cent. Those of a progressive character frequently rising above
100 per cent.
WANTED.—Alfred Consols, Botallack, Doleoath, Hingston Down, North Rockear,
South Caradon, Wheal Margery, Edward, Ladcott, Tebidy.
Since calling public attention to twelve progressive mises, a rise has taken place
of the following:—Craddock Moor, from £35 to £5, equal to £10,550; Calstock Consols, £3½ to £4½, or £2048; East Russell, from 10s, to £2, or £6000; Wh. Edward,
£4 to £5, being an increase in value of £16,000; Swanpool, £1 to £3½, or £2700:
Total increase of value in three months of £37,298.
The following shares present equally as good prospects of success, and worth immediats attention:—
Devon Burra Burra.
Tokenbury Consols.

Great Wheal Bury.

mediate attention:

Devon Burra Burra.

Tokenbury Consol.

Boiling Well.

Dale (Limited).

North Wheal Wrey.

Bouth Bog (Limited).

Park.

P.S. PLUMBAGO.—FOR SALE, 5 tons of PUBE CUMBERLAND LEAD, samples of which may be seen at this office.

INITED STATES OF AMERICA.—DUPEE, PERKINS, NITED STATES OF AMERICA.—DUPEE, PERKINS, and SAYLES, BOSTON, MASSACHUSETTS, BROKERS for he PURCHASE and SALE of STATE, CITY, and RAILROAD SECURITIES, MANUPACTURING OBANK SHARES, give particular attention to the MINING COMPANIES OF ARE SUPERIOR, and furnish reliable information concerning them.

[Dupers, Penriss, and Sayles refer to the Editor of the Mining Journal.] ? 3 IN CHANCERY.—In the Matter of the JOINT-STOCK COMPANIES ACTS, 1818 and 1849, and the NANTLLE VALE SLATE COMPANY.

1818 and 1819, and the NANTLLE VALE SLATE COMPANY.

M. R. WILLIAM DEW WILL SELL, BY AUCTION, at the Sportsman Hotel, Carnarven, on Wednesday, the 30th day of September, 1857, at One o'clock in the afternoon, in One Lot, by direction of the Master of the Bolis, the Judge to whose Court this Matter is attached, the TY-MAWR SLATE AND SLAB GUARRIES, situate in the parish of Lianlipfan, sear Carnarvon, held ander a lease for 21 years, from the 1st of October, 1852, determinable, at the option of the lessees, at the end of the first seven or fourteen years, subject to a royalty of 2s. 6d., per ton, with a proviso, that the same shall not be less than £100 per annum. Also, the USE of a TRAMWAY in and over certain fields, known as Cae Liya Telyn and Cae Carrol, in the said parish of Lianlipfan, for a term of 21 years, from the 18th of May, 1854; and also, the RIGHT to USE the SHORES or BANKS of the NANTLLE' VALE LAKE, for the deposit of refuse of the quarries, subject to the yearly rent of £30; together with the PLANT and MACHINERY in and upon the said quarries.

Particulars, with conditions of sale, may be obtained at the place of sale; of Mossra. Hannson, solicitors, 5, Walbrook, London; at the British Hotel, Bangor; the Commercial Inn, Portmadoc; Pengwen Arms, Ffestiniog; and the Sportsman Hotel, Carnarvon.

GREAT CONSOLIDATED MINES, GWENNAP.

GREAT CONSOLIDATED MINES, GWENNAP.

R. LITTLE WILL SELL, BY AUCTION, on the above mines, on Tuesday, the 29th inst., at Eleven o'clock precisely, the following valuable MINE MATERIALS: - viz., One 30 in. cylinder PUMPING ENGINE, 10 ft. stroke in cylinder, and 9 ft. in shaft, with four boilers about 45 tons; one 20 in. cylinder whim engine and cage, with belier about 6 tons.

stroke in cylinder, and 9 ft. in shaft, with linder whise engine and cage, with belier 2 10-arm capstans. 2 60 ft. shears. 1 cat-bead. 1 swrface balance-bob. 3 underground balance-bobs. 1 12 in. capstan-rope. 1 10 ½ in. pumps. 2 3 ½ ft. 13 in. matching pieces. 2 6 ft. 13 in. matching pieces. 2 6 ft. 13 in. matching pieces. 1 12 in. H-pieces. 1 12 in. H-pieces. 1 12 in. H-pieces. 1 14 in. windbore. 1 14 in. windbore. 1 14 in. windbore. 1 14 in. stuffing-boxes and glands. 1 12 in. stuffing-boxes and glands. 1 12 in. stuffing-boxes and glands. 1 15 pairs 7 in. flaggoted iron strap-plates. The agents on the mine will show the m Mr. Payon; or at the offices of the agents on the mine will show the m Mr. Payon; or at the offices of the agents on the mine will show the m about 6 tons.

100 pairs 6 in. faggoted iron strap.-pla
5 pairs 5 in. ditto ditto
10 pairs 7 in. faggoted iron caps.
10 pairs 6 in. faggoted iron caps.
330 fans. 13, 13, and 14 in. wood rods.
7 tons best iron rod pins.
6 tons staples and glands.
5 tons staples and glands.
2 tons bolts and burs.
2 tons bolts and burs.
2 tons tailroad iron.
6 tons tram saddles.
2 tons whim-chain.
3 tons old brass.
10 tram wagons. 10 tram wagons.
6 5 ft. 8 in. sheaves.
2 40 in. smiths' bellows.
4 36 in. smiths' bellows.

stocking.
Bucket prongs.
Several pairs of 12, 13, and 14 in. fag
goted iron yokes.
Smiths' tools.
Wrought and east-iron.
Old boilers and boiler tubes.
A large quantity of new iron.

The agents on the mine will show the materials; and for further parties Mr. Pavon; or at the offices of the auctioneer, Redruth.

Dated Sept. 16, 1857.

IMPORTANT AND EXTENSIVE SALE OF HORSES, &c., AT THE STABLES, BLOXWICH BRIDGE, NEAR WALSALL.

TO RAILWAY CONTRACTORS, HORSE DEALERS, COAL AND IRONMASTERS, AND OTHERS.

TO RAILWAY CONTRACTOR, AND OTHERS.

MR. H. FARRINGTON respectfully announces that he has received instructions from Mr. Pigott (who has finished his contract on the Cannock and Norton branches of the South Staffordshire Railway) to OFFER, BY PUBLIC AUCTION, at the railway stables, Blox wich-bridge, within one mile of Waissil, on Tuesday, October 6th, 1877, FIFTY SUPERIOR YOUNG AND WELL-SEASONED POWERFUL DRAUGHT HORSES, with their gears; capital GREY HARNESS MARE, five years old, 15% hands, very steady in harness; capital GOB RIDLING HORSES, 14 hands.

Sale to commence at Eleven for Twelve s'elock, under the usual conditions. The auctioneer begs to call the attention of dealers and others to this important and genuine sale, as the horses are mostly young, and in excellent working condition, and will be sold by the proprietor without reserve, he having no further use for them. Also will be OFFERED, at a FUTURE SALE, about 300 tons of WROUGHT-IRON RAILS (40 lbs. to the yard), 300 EARTH WAGONS, CARTS, BARROW'S, PLANKS, STABLES, & HEDS, &c., due notice of which sale will be given in a future advertisement.

nent.
The stables are situate near the Mill, one mile from Walsall, on the Bioxwich-roat
and suitable accommodation will be provided for any gentleman driving or riding
the sale.—Auctioneer's offices, Bridge-street, Walsall.

BRIERLEY, STAFFORDSHIRE.—VALUABLE MINING PROPERTY.

TR. THOMAS NOCK WILL LET, UPON LEASE (with the sanction and authority of the Charity Commissioners for England and Waises), BY AUCTION, at the Swan Hotel, in Wolverhampton, on Wednesday, the 14th of October, 1857, between the hours of Four and Six o'clock in the afternoon, subject to conditions to be then produced, ALL that FARM and LANDS situate in the township of Brierley, it like parish of Setigley, in the country of Stafford, with the DWELL-ING HOUSES and BUILDINGS thereon erected, and now in the occupation of Mr. James Evans, containing, by a recent curvey and admeasurement, 17a. 2a. 30p., or thereabouts, for the term of 21 years, at the yearly rent of £51 as a surface runt, payable baif-yearly during the said term; and also ALL the UNGOTTEN MINES of COAL, IRONSTONE, LEMESTONE, CLAY, and all other MINES and MINERALS lying and being in and under the said premises, with full power to get and dispose of the same, for the east efterm of 21 years.

The minerals under the estate immediately adjoining to the above property are now being extensively worked by Mr. H. E. Whitzhouse and others, and are of first-rate quality.—Further information may be obtained from Mesers. Ports and Gordon, solicitors, Bridgnorth and Broseley. BRIERLEY, STAFFORDSHIRE. - VALUABLE MINING PROPERTY.

SOUTH STAFFORDSHIRE.

TO IRONALSTERS, COAL MASTERS, CAPITALISTS, AND OTHERS.
VERY VALUABLE THICK COAL AND IRONSTONE MINES.
BESTFELL LANE, KINGSWINFORD.

MESSRS, OATES AND PERRENS have been honoured with instructions from Messrs. Wheeley to OFER FOR SALE, BY AUCTION, on Monday, the 16th day of November, 1857, at Five o'clock in the afternoon, at the Taibot Hotel, Stourbridge (unless an ac-eptable offer be previously made by private contract, of which due notice will be given), in the following, or such other lots as shall be determined by the wendor, and subject to conditions then to be produced, the entirety of that exocedinally valuable and most desirable MINERAL ESTATE, called or known as the HAWBUSH ESTATE, situate at Brettell-lane, in the parish of Kingswinford, in the county of Stafford, and containing similar valuable MINES of THICK or TEN YARD COAL, BROOCH COAL, IRONSTONE, &c., to those found in the adjoining collieries, headings from which have been driven under the estate to the extent of about 400 yards, as shown on the annaxed plan; these fully prove the existence thereunder of the extremely valuable mineral strata of the aurrounding highly prolific district, and may be made available for the future working of the mines. There is an excellent MINE of SURFACE CLAY on the property, and a capital MANAGER'S HOUSE and bouse adjoining, FARM-HOUSE and OUT-BULLDINGS, together with TWO COTTAGES and GARDENS, and a considerable portion of the estate may, with advantage, be offered for building purposes; the whole contains by mensuration 34A. I. 33P.

Particulars and plans of which are herewith given, and may be had at the offices

whole contains by mensuration 34 a. 1 R. 33 P.

Particulars and plans of which are herewith given, and may be had at the office of the Middland Counties Heraid, Aris Gazette and Journal office, Birmingham; th Chronicle office, Wolverhampton; and the Mining Journal office, London; at the place of sale; and the principal inns in the neighbourhood; at Meanra Wherlaw will appoint a person to show the estate, upon application to the offices aforesaid and for further information, apply to Mr. Hawwam, solicitor, or the suctioneers both of Stourbridge.

PARTICULARS.

ı	No. on	plan. Description.	Cultivation.	- G	CAP	tity.
ı	1.	Barrow's close, and two houses and gardens	Pasture	24	. 2 m	. 34 1
j	2.	Yew-tree piece	Arable	3	2	9
ı	3.	Coekshutt	Arable	1	3	20
Į	4.	Hanging piece	Arable	2	2	21
ì	5.	Tree piece	Arable	5	3	14
ì	6.	Rough in ditto	Wood	0	3 .	11
١	7.	Withey bed	Oziers	0	3	- 5
ı	8.	Pool piece		1	3	28
ı	9.	Pools and rough in ditto	Wood, &c	0	3	31
ı	10.	Upper sling and road			0	7
į	11.	Lower house piece	Pasture	2	3	0
ı	12.	Square piece	Arabie	3	1	27
1	13.	Rough in ditto		0	0	18
ı	14.	Upper house piece	Pasture	3	1	36
1	15.	Sling:	Paeture	1	1	8
	16.	Barn, stables, cowhouses, piggeries, granary, a steam-engine, rick yard, and fold yard,	*********	. 0	2	15
ı	17.	Road and well		0	0	9
ł	18.	Two bouses and gardens	************	0	1	35
ı	19.	Hawbush house and garden	**********	0	0	34
١	20.	Gardens	**********	0	0	24
1	1	Half the adjoining turnpike road	*********	0	3	7
۱				-		

34A. IR. 33P.

OUTH WALES.—Mr. ARTHUR O. DAVIES, of Dowlais, is authorised to TREAT for the SALE of TWO VERY VALUABLE GOING COLLIERIES in South Wales.

Also, TO LET, an EXTENSIVE TRACT of STEAM COAL, on a long lease, at a moderate royalty, with a railway running through the property.

MINING MACHINERY AND MATERIALS FOR SALE.

R. C. E. PEARSE WILL SELL, BY AUOTION, on Monday, the 28th September inst., at the WITHIRL UNITED MINS., in and ATERIAL thereon:—viz., One WATEL—WHEEL, 20th. in diameter, 3 ft. breast, with wrough, it of entry piece and east-trem sockets; one disto, 16 ft. in diameter, 5 ft. 6 in, breast, with wrong sudgeons, crank, breases, and bearing blocks, complete.

8 9 ft. 10 in., pumps.
19 ft. 10 in., unindbore.
110 ft. 9 in. working.
16 ft. 15 in., deorpiece.
19 ft. 8 in., pumps.
19 ft. 8 in., windbore.
10 ft. 7 in. windbore.
200 fms. 1/3 in. flat rods.
200 fms. 1/4 in. flat rods.
200 fms. aluders.
200 fms. indders.
200 fms. inders.
200 fms. aluders.
200 fms. backet rods. 19 ft. 8 in. windbore. 10 ft. 7 in. working. 16 ft. 8 in. doorpiece. 4 9 ft. 7 in. pumps. 1.9 ft. 7 in. windbore. 1 to ft. 6 fg. in. working. 1 6 ft. 7 in. doorpiece. 1 4 ft. 7 in. matching.

1 4½ ft. 7 in. matching.

One capstan and abeers, with oak axie, and cast-iron centre piece; 90 fms. ½ castan-chain; 90 fms. 9 in. capstan-rope, quite new; 3 horse-whims, with poppet here and theaves; 3 whim-rope; 80 fms. 7-16 whim-chain; 40 fms. ½ in. ditto; 2 shall bobs, with brasses and bearing blocks, complete; 2 belance bobs, a large quantity of new and old timber, new and old times, about 6 tons of transroad iron and addies, large tram wagons, 5 small ditto, miners' tools of all kinds, miners' and other cleen, smiths' tools or ever gear. bolts and burs, 40 in. smiths' bellows, vice, mandrill, gitseling-stone, double and treble blocks, horse-whim and winse, kibbies, 2 large waters, 2 small ditto, tackle and other small rope, barrows, air machin, gad and other steel, hoop iron, powder, gresse, oil, leather, smiths' shop, changing boss, material house, carpenters' shop, account house and furniture, with numerous other articles.

All the above materials will be found of castlent matter.

articles.

All the above materials will be found of excellent quality, and most convenients situated for removal, being within one mile of the Bodmin and Wadebridge Railway and about the same distance from the Bodmin and Truro turnpike-road. The sale commence at Fredve o'clock precisely.

For viewing the same, and for all other information, apply to the agent, Capt. B. Grasse, on the mine.—Dated Withiel United Mine, Sept. 14, 1857.

TO BE DISPOSED OF, a LEAD MINE, in the centre of a good mineral district in WALES. The ett is very extensive, covering no less that 650 acres of land, intersected throughout with a large number of todes, containing tend ore, blends, etc. There are erected on the mine a good water-wheel, crush-dressing-Smors, blacksmitths' and carpenters' shops, office, &c.—For further partial ars, apply to "A. B.," at Mr. Rowland Evans, grocer, Aberystwith.

lars, apply to "A. B.," at Mr. Rowland Evans, grocer, Aberystwith.

WEST SORTRIDGE CONSOLS.—FOR SALE, BY PRIVATE
CONTRACT, the above MINE, in the parish of Whitchurch, Devon, togther with ALL ite MACHINERY and MATERIALS thereon, comprising a WATEL
WHEEL, 15 ft. in diameter and 7 ft. breast; first-class 8-beaded stamps; balance-botravelling-bob; anoti-bob; line of [flast-rods (about 35 fms.) of & in. eroms iron, wis
pulleys, complete; piece of 6 in. main rod; 200 fms. tram iron, 2\(\frac{1}{2}\) by \(\frac{1}{2}\); 35 fathon
whim-rope; 14 fms. \(\frac{1}{2}\) chain; 2 whim-kibbles; 7 spars stamps inters; wood floor,
&c.; about 7 or 8 cwis, of east-steel borers; about 2\(\frac{1}{2}\) ewts. of powder; and sundy
other articles, for which see catalogues.
The above mine adjoins the celebrated Sortridge Consols Mine on the west, the discovery just mads in the 40 west at which is looked upon as affecting most favourably
the West Sortridge sett, and adjoins Wheal Franco, which has also made good ro,
turns, and is in the immediate neighbourhood of North Wheal Robert, now making
large returns.

The present adventurers have expended a considerable sum in laying open the lode,
and several hundred pounds worth of tin ore have been sold, but a number of the
snareholders flot paying their calls obliges the company to offer this promising min,
with the machine, &c. Many of the present thareholders have been desirous of josting a new company, as they believe that with a small additional expenditure inportant discoveries will be made.

Every information, orders to inspect, and catalogues, may be obtained of J. H. Mocutson, E. &c., 117. Eisbosygate-street-within, London.

Every information, orders to inspect, and catalogues, may be obtained of J. H. M. nusos, E-q., 117, Bishopsgate-street-within, London.

ALUABLE BEDS OF CANNEL AND COAL MINES, POOL
GREEN, NEAR BLACKEOD.—TO BE LET, ALL those valuable BEDS of
BEAMS OF CANNEL and COAL MINES, called or known by the names of the Conel Mine. The estate lies in a ring fonce, containing about 26 statute acres, and with
100 yards of the Bolton and Preston Railway, and is intersected by the turspike rod
from Blackrod to Manchester. The property is distant about six miles from Chorie,
and about five miles from Bolton.
Proposals for working the above-named mines will be received by Mesars. Jam
WHITTLE and Sons, land and mining agents, Charnock Richard, near Chorley.
Hill Cottage, Charnock Richard, near Chorley, Sept., 1857.

VALUABLE ANTHRACITE COAL.—TO BE LET, under the farms called Lladrog Mawr, Lladrog Fach, Ty Canol, Branwithaw, Celdrin, and Wern, the following valuable SEAMS OF COAL, or some of them may be worked under these properties:—The Wain Fyanon, the Drap, Graigog, Green, Big Sean, Yard, and Two Feet Seam, varying from 2 to 9 ft. thick. The situation of these farm with reference to the Gwendraeth Canal and the South Waice Railway, afford an car communication to the ports of Pembrey and Kidwelly, as well as to the interior of England.—For further particulars, apply to Mesers. WHITE, BROUGHTON, and WHITE, Solicitors, 12, Great Marthorough, activated, W. London; Mr. GRORGE GOODE, Carmathen; Mr. W. P. Syrauve, C.E., Swansea.

MINERAL DISCOVERY, AND TO LET.—This month has been DISCOVERED a LARGE MASS of DECAYED SPATHOSE IRON OR, of excellent quality, close on the shore, and easily wrought. The mass is 100 in 120 ft. wide, as seen, and extens a mile inland. The slag of what has been smelted (supposed by the Romans or Danes) lies in large quantities contiguous. This deposit a quite distinct from the ores advertised (see Missing Journal of 5th September). Apply to Ww. Fonlowo, proprietor, of Erins, Loch Fyne, Argyleshire.

Apply to WM. FORLOWG, proprietor, of Erins, Loch Fyne, Argyleshire.

PALE SLATE QUARRIES, NEAR CORWEN.

CERTAINTY OF SUCCESS TO CAPITALISTS.

The above very promising slate quarry has been partially opened about two years ago, and worked with such success as an imperfect clearing of the slate vein woild admit of, and made to pay; during which time it has been satisfactorily ascertained that, at a comparatively very trifling outlay, abundance of slate of the best qualify might be detached even during the process of clearing, and sent to market. Hall, or THREE-FOURTIES, in the concern, on very reasonable terms, their main object to meet with parties who would advance the necessary sum (at so much presents undertaking a profitable, and even a lucrative one to the shareholders.

A water-power engine, for pumping and other purposes, has been recently erected; and the nature of the ground and other advantages offers every facility to the carring on of extensive works.

Full particulars may be had on application to W.T. Owen, manager, Fale Slay Quarry, near Corwen, North Walcs.

IMI INI advi labo per Al and era, mill chee

VEN Shill

BAD ASHES, and LEAD WASTE of any description, WANTED

TO PURCHASE; also, OLD LEAD or ZINC. PIG-LEAD FOR SALE—
nples may be sent to Cmas. Low, Smelting Works, Old Ford Wharf, Bow, London
Lead, Silver, and Copper Ores bought.

EAD FOR EXPORTATION.—PIG-LEAD (hard and soft SOLD at LOW BATES. The BEST PRICE given for LEAD ASHES, &c. d OLD LEAD.—Roupell and Co., Southwark Lead Works, Gravel-lane, London,

CONDIE'S PATENT STEAM HAMMERS.

FIRST-CLASS STEAM HAMMERS, from 10 cwts. to 7 tons, suitable for jeding forges, puddling forges, engineers, ship-builders, wagon builders, smiths, a made under the subscriber's personal superintendence.

JOHN CONDIE.

Govan Bar Ironworks, Glasgow.

TO COLLIERY OWNERS.—SAFETY with ECONOMY in usin MOZARD'S PATENT IMPROVED SAFETY MINING LAMPS, which sight brilliant light and prevent explosion, as the lamp cannot be opened without existing the light; and for twelve hours' burning the cost does not exceed ideanufactured by H. Hodoninson, 31, Berwick-Arrect, Soho, London.

Agents wanted for various districts.

TO IRONMASTERS, ENGINEERS, AND FOUNDERS.— The HARRINGTON IRON COMPANY are now PREPARED to SUPPLY MELTING and FORGE PIG-IRON, made from the rich HEMATITE IRON OBES of CUMBERLAND.—Address, Harrington Iron Company, Cumberland.

TO IRONMASTERS.—Mr. W. OAKES, FURNACE MANAGER, STOCKTON-ON-TEES, DURHAM, has taken out a PATENT for all M. PROVED CONSTRUCTION of BLAST FURNACES, being the formation of a GASTOP, for the purpose of conveying the gas from the furnace to the boilers and heding stoves, by which a very large eaving is effected in the consumption of fuel, and the labour of firemen dispensed with.

These PATENT GAS TOPS are CHEAPER and MORE ECONOMICAL in their use than the old fashioned gas tops. When Durham coke or raw coal is used in

use than the old fashioned gas tops. When Durham coke or raw coal is used it smelting, great advantage will be derived. The apparatus has been in work on two furnaces for the last six months, and found to answer every expectation, and being made is of as good quality as from open top furnaces. There is no danger from explication. Mr. W. OAKER OFFERS the USE of his PATENT to IRONASTERS DOOR advantageous terms. Applications for terms along a descriptor, it is madely upon advantageous terms.—Applications for terms, pla to Mr. W. Oakes, St. Ann's, Stockton-on-Tees, Durham

MILE. W. UAKES, St. Ann's, Stockton-on-Tees, Durham.

ORIZONTAL HIGH-PRESSURE STEAM-ENGINES ON SALE.—B. and J. COUPE, CLATTON FOUNDRY, WIGAN, have on hand, on the country of the strength of the strong 40-horse power ENGINE, bright, 24 in. bore of cylinder, and 4ft. stroke, equilibrium alide valve.

TWO 30-horse power ENGINES, 20 in. bore of cylinder, and 3 ft. stroke, one bright, equilibrium side valves.

TWO 22-horse power ENGINES, 17 in. bore of cylinders, and 3 ft. stroke, commens side valves, one bright, one biack, FOUR 20-horse power ENGINES, two black and two bright, 16 in. bore of cylinders, and 3 ft. stroke.

SIX 12-horse power ENGINES, three biack and three pollehed, 12 in. bore of cylinders, and 3 ft. stroke.

ders, and 3 ft. stroke.

SIX 12-horse power ENGINES, three black and three pollshed, 12 in. bore of cylinders, and 3 ft. stroke.

TWO 6-horse power ENGINES, 8 in. bore of cylinder, and 18 in. stroke.

All strong, independent-framed engines, suitable either for manufacturing or let winding purposes.

Also, several of their IMPROVED DONKEY ENGINES, for forcing water into pollers, citerps. See

oliers, cisterns, see. particularly requested to state for what purposes the cagins required.—July 24, 1857.

pet heads pet heads p; 2 shaft mantity of

RIVATE von, toge-WATER lance-bob;

n the lodes, aber of the ising mine, ous of join-diture in-

J. H. Mu

inder the w, Ceidrin, y be worked Big Seam, these farms ford an eary o interior of and Warrs, ore, Carmer-

RWEN.

ascertained best quality et. ONE-HALF,

r, Pale Sh

WANTED OW, Londo

ne, London,

MERS.

Y in usin

NDERS.—
to SUPPLY
IRON ORES
ad. //

ANAGER,

CAL in their oal is used in work on two ation, and the danger from DNM ASTERS is, to be made for the control of the control of

INES ON have on hand,

eylinder, and oke, one black, roke, common

bore of cylin-

in. bore of er-

roke.
scturing or for ing water into ses the engine

VERLAND ROUTE.—STEAM TO INDIA AND CHINA, &c.,
via EGYPT.—The PENINGULAR AND ORIENTAL STEAM NATIGATION
COMPANY BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the
MEDITERRANEAN, EGYPT, ADEN, BOMBAY, CEYLON, MADRAS, CALCUTTA, the STRAITS, and CHINA, by their steamers leaving Southampton on the
for further particulars, apply at the sompany's offices, No. 123, Leadenhall-street,
London; and Oriental-place, Southampton.

MESSRS. R. & J. COUPE, ENGINEERS and IRONFOUNDERS,
MANUFACTURERS of HORIZONTAL HIGH-PRESSURE STEAMEN.
GINES, from 10 to 200-hurse power; the larger description of engines mounted with
their INFROVED EQUILIBRIUM SLIDS FISTON VALVS, which has proved itself so emigently adapted for winding and other engines.

Clayton Foundry, Wigan.

THOS. GEMMELL AND CO., WIRE ROPE MANUFACTURERS, WORKS, FIRHILL ROAD, SPRINGBANK, GLASGOW.

WARRHOURSS—Finniesten Quay, Glasgow; 10, King-street, Liverpool;
43, Marischal-street, Aberdeen; 46, Osborn-street, Liverpool;
AGREEN.

HENRY J. MORTON and Co., 2, Basinghall-buildings, Leeds.
GROODS OUTSIN, Liverpool-road, Stoke-upon-Trent.
ISAAC NAYLER, Dibdale, near Dudley.
J. WADDINGTON, 109, Milgate, Wigan.
THOMAS REID, 33, Quayside, Newcastle-upon-Tyne.

TROMAS RIBLE 33, Quayside, Newsoatle-upon-Tyne,

PATENT WIRE ROPES, ONE-HALF THE COST OF HEMP ROPES.—HENRY J. MORTON AND CO.'S (No. 2, BASINGHALL BUILD-TROSS, LEEDS) PATENT WIRE ROPES, for the use of MINES, COLLIERIES, BAILWAYS, &c.; one-half the weight of heith prope, and one-third the cost; one-half the weight of heith and deep mines these advantages are self-evident. References to most of the principal colliery owners in the kingdom. GALVANISED SIGNAL CORDS AND ENDERSHOED WORTS; will not rust or correct, and not affected by the copper water in mines. Yery strong, and not at all liable to break. Prices from 15t, per 100 yards.

CROGGON'S PATENT ASPHALTED ROOPING FELTS, 1d. per foot. DRY HAIR BOLLER FELTS, to SAVE COAL.

PATENT BOLLER COMPOUND, for bad water.
FAIRBANN'S WEIGHING MACHINES, of all sizes.
GALVANISED ISION ROOPING AND SPOUTING.
PATENT HELENIBLE STEAM TACKING, 1s. 3d. per 1b.
PATENT METALLIC PACSING, 4s. per 1b.
PATENT GALVANISED BROWNERS IN Liverpool and London:—viz.
OILS, GREASES, COTTON WASTE, 8PUN YARN, WHITE LEAD, VARNISHES 40.; and at very low prices.—Address, 2, Basinghall-buildings, Locids.

N. B. Illustrated price list on application.

N.B. Illustrated price list on application.

MOST IMPORTANT TO COLLIERY OWNERS AND COLLIERY MANAGERS.—HENRY J. MORTON AND CO., GALVAN.

BED IRONWORKS, No. 2, BASINGHALL BUILDINGS, LEEDS, beg to call attention to their improved signal Built, appecially prepared to meet the requirements of the new Act for the Inspection of Ccal Mines. It has met with the decided approval of many large colliery owners and Bringers. Simple, Erryiciser, and Cirkar. Price from \$1 to £1 5s. each.

BYRAM'S PATENT ANEMOMETER, for testing the ventilation.

Price £3 3s. to £4 4s. each.

STEAM PRESSURE GAUGES, very strong and accurate, £2 and £2 12s. 6d. each.

For further information, apply to MORTON AND CO., 2, Basinghall-buildings, Leeds.

AIRBANK'S IMPROVED PATENT WEIGHING MACHINES, for the use of IRONWORKS, COLLIERIES, RAILWAYS, WAREHOUSES, STORES, &c. The most ACCURATE MACHINES in use, and the cheapest. MACHINES of all sizes, from I cwt. to 30 tons, for RAILWAY WAGONS, CARTS, or WAGONS,—For prices and all other information, apply to HEWRY J. MORTON and Co., Galvanised Ironworks, 2, Basinghall-buildings, Leeds.

Croggon's Patent Asphalted Roofing Feits, Boiler Feits, Galvanised Iron, &c., in Stock.

PATENT COMBINED GAS WORKS, of all sizes, for the use of PRIVATE HOUSES, MANSIONS, RAILWAY STATIONS, MILLS, COLLIERIES, VILLAGES, &c., FIXED COMPLETE, with greatly improved means for parifying, &c. Works of all sizes, from 10 lights to 50 lights, estimated for. The construction is so simple, that the works can be entrusted to the management of sondinary labourer or servant.

Apply to H. J. MORTON and Co., Galvanised Iron Works, 2, Basinghall-buildings, BOLE LICENSEES AND AGENTS.

Leeis.

OD ENGINEERS, RAILWAY COMPANIES, STEAM PACKET COMPANIES, COLLIERY OWNERS, MILL OWNERS, &c.—WARNE'S INPROVED ANGLO-AMERICAN PLEXIBLE CANVAS, and MINERALINED INDIA RUBBEP. PACKING for STEAM JOINTS, FUMP CLACKS, VALVES, &c.—The attention of all using ateam-power is called to this clastic packing, possessing advantages which renders it the cheapest in use. Reducing friction, saving time and labour, and casting as many months as hemp or spun yarn will weeks. Price 1s. 4%d. par pound, carriage paid.

Also, MINERALISED INDIA RUBBER HOSE PIPES, TUBINGS, MILL HANDS, and WASHERS. The attention of engineers, mill owners, machine makers, brewis, and others, is called to the above innovoved hose pipes and machine belting or mill bands, the important advantages of which, as regards durability, efficiency, and cheapness, are too well known and appreciated to need comment. For lists of prices, apply to the agents, Haws J. Moarox and Co., Galvanised Ironworks, 2, Basinghall-buildings, Leeds.

INDIA RUBBER WASHERS for JOINTS for steam, water, and gas, of all sizes.

TO IRONMASTERS,—GAUNTLETTS PATENT PYROMETER,
OR HEAT GAUGE FOR HIGH TEMPERATURES.
Ever since the important invention of beated blast in the smelting of metallic ores was brought into general use, the want of an accurate and durable thermometer for indicating the heat of the blast has been generally experienced. That want is now supplied by this instrument.

Its ADVANAGE consists in its capability of INDICATING HIGH TEMPERATURES beyond the reach of the ordinary marcurial thermometer. Its extreme sensitiveness, and the precision with which it registers high temperatures, renders it avaluable as an appendage to the heating stoves of blast furnaces. The fireman, if guided by its indications, is enabled to MAINTAIN a UNIFORM TEMPERATURE in the stove (an important matter in blast furnace operations), whereby a considerable saving of fuel may be effected, both in that used to heat the stove, as well as that which is consumed in the farnaces to smelt the minerals. These gauges are supplied only by W. J. Lenwarn, Middlesbrongh-on-Tees.

THE DISPATCH OIL SOCKET AND AXLE CLEANER.—
To be set in the Hubs or Naves of all kinds of Wheels, in New or Old Carriages (with or without patent or close boxes), Coaches, Omnibuses, Cabs, Carriages, Heavy Wagons, Artillery, Dray Carts, &c., of every description. For OlLING and thoroughly CLEANING the AXLES without taking off the wheels, and in one minute. For LICENERS or EXCLUSIVE RIGHTS to apply the Oil SOCKET AND AXLE CLEANER throughout the United Kingdom, address to owner, Mr. Charles Brown, Barlborough, near Chesterfield. Office and shop for applying the Oil Socket, &c., at the Saw Mills, Barlborough; at the Crown Works, Fond Hill, Sheffield; and at all sutherised agents throughout the kingdom.

VULCANIZED INDIA RUBBER MACHINE BANDING is not affected by wet, heat, or cold; does not stretch nor slip on the pulleys. BASES for BREWERIES, &c., will not impart taste, smell, or colour; also, for conducting, or steam purposes. VALVES, WASHERS, PACKING, &c., IN STOCK.—Prices and testimonals on application to Dodez, Bacon, and Co., No. 44, St. Paul's Church-yard, London, E.C.

NEW PATENT ACT, 1852.—Mr. CAMPIN, having advocated Patent Law Reform before the Government and Legislature, and in the pages of the Mining Journal, &c., is now READY to ADVISE and ASSIST INVENTORS in OBTAINING PATENTS, &c., under the NEW ACT.

The Circular of Information, gratis, on application to the Patent Office and Desiral Register, 156, 813711. The Circular of Information signs' Registry, 156, Strand.

OTICE TO RAILWAY AND STEAM-BOAT TRAVELLERS.

AST, with joint, is, 6d. BEDS, 10s. 6d. per week. DINNERS from Twelve to Eight colock; joint and vegetable, is, 6d.; with soup or fish, 2s. TURTLE SOUP and VENISON DAILY. TABLE D'HOTE at Half-past One and Half-past Five, at Twe Salllings each. A night porter in attendance.

G LENFIELD PATENT STAROH,

USED IN THE ROYAL LAUNDRY.

AND PHONOUNCED BY REE MAJEST'S LAUNDRESS TO BE
THE PINEST STAROH SHE EVER USED.

115

Sold by all chandlers, grocers, &c. 115

Pive Thousand Copies of a Medical Book for Gratuitons Circulation. Prove Thousand Copies of a Medical Rook for Gratuitons Circulation.

To Gratuitons Circulation.

To Gratuitons Circulation.

BORGE THOMAS, Esq., having been EFFECTUALLY CURED of NEEVOUS DEBILITY, LOSS OF MEMORY, and DIMNESS OF SIGHT, resulting from the early errors of youth, by following the instructions given in a medical work by a physician, he considers it his duty, in gratitude to the author, and for the benefit of nervous surferers, to publish the means used. He will, therefore, sund free, to any address, in a scaled envelope, or receipt of a directed envelope colosing two stamps, to pre-pay postage, a copy of the medical work, containing very information required.—Address, G. Tromas, Esq., Craven House, Newcastle-upon-Tyne.

BURGIN AND WELLS, STEEL CONVERTERS AND REFINERS, MANUFACTURERS of RAILWAY CARRIAGE and WAGON SPRINGS, IMPROVED CAST STREL FILES, &c. HOLLIS CROFT STEEL WORKS, SHEFFIELD.

JOHN H. PECK, MANUFACTURER OF RAILWAY OIL COVERS, CART AND WAGON COVERS, OIL CLOTH, STACK COVERS, BOAT SHEETS, TARPAULIN, BRATTICE CLOTH, COKE AND CORN SACKS, POTATO BAGS, TWINER, &c., WIGAN. 123

BRYAN, McCRACKEN, AND CO., MERCHANTS, AND
GENERAL COMMISSION AGENTS,
1, SANDHILL, NEWCASTLE-ON-TYNE.
Contracts made for all kinds of Machinery, Cast and Wrought-Iron Railway Bars,
Anchors, Chains, Coals, Coke, Fire-Bricks, &c.
All orders promptly shipped and for warded.
Prices and lists of freights or carriage sent on application.

WM. RYDER, GENERAL MINERAL AND METAL AGENT AND MERCHANT, No. 4, DEAN STREET, NEWCASTLE-ON-TYNE, is prepared to SUPPLY any description of IRON OF IRON GOODS, MACHINERY of every description, CHAINS, ANCHORS, and FORGED or FOUNDRY WORK, COLS, COKE, FIRE-BRICKS, &c. All communications addressed to him as above shall have prompt and eareful attention.

WILLIAM FOX AND SON, METAL AGENTS, No. 39, OLD RALL STREET, LIVERPOOL, SOLE AGENTS in LIVERPOOL for the IALE of the following makes of IBON:—

DAWRS AND SON'S.
MILTON AND ELSECAR.
JOHN MARSHALL'S. PLANT AND FISHER'S, BROUGHTON HALL-DANIEL ROSE'S. EVERY DESCRIPTION of IRON ALWAYS ON SALE. Also, TIN-PLATES, WIRE, RAILWAY SPIKES, &c. /26

MUNTZ'S PATENT SOLID ROLLED BRASS TUBES,
G. F. MUNTZ begs to state that, in consequence of the satisfactory results obtained
during the five years these tubes have been in use, the following railway companies
have entered into contracts to USE the PATENT TUBES exclusively on all their
lines, viz. -

The London and North-Western Comp. The Laneashire and Yorkshire Company. The Midland Company.

Laneaster and Carlisle Railway Company.

Laneaster and Carlisle Railway Company.

These tubes are also very extensively used on all the other principal railways at home and abroad, and for marine purposes by Her Majesty's Navy and several of the leading steam-packet companies, and also by all the eminent engineers of the kingdom.

G. F. Munyz takes this opportunity of stating that the tubes now manufactured are very superior, both in finish and quality, to those formerly produced in the early stage of the patent.—French Walls, Birmingham, April, 1897.

GEO. RIGHARDON AND COMPANY. DECORAGE AND MANUAL COMPANY.

CALVERT'S PATENT PROCESS FOR MAKING COKE AND IRON FREE FROM SULPHUR.
For LICENSES to USE the above process, apply to ROBERT LONGDON, Jun., 53, King-street, Manchester.

63, King-street, Manchester.

For APPLICATION of the PATENT to GAS WORKS, apply to Mr. Georgi Talekett, Exchange Chambers, Manchester.

HEET ZINC AND SPELTER.—ACTON BRIDGE ZINC SHEET ZINC MILLS, NEAR NORTHWICH, CHESHIRE.

SHEET ZINC, out of the best elected SILESIAN SFELTER, refined and rolled at these mills, CONSTANTLY ON HAND, of all usual gauges, or rolled to order any practicable length, width, or thickness, to ault purchasers, on moderate terms. Also, TELEGKAPH PLATES, SHEATHING FOR VESSELS, &c. OLD ZINC and SHEATHING FURCHASED. SILESIAN SPELTER ON SALE.—Apply to the Manager, at the Mills; or at the office, 3, Harrington-street, Liverpool.

CHORTRIDGE, HOWELL, AND JESSOP, HARTFORD STEEL
WORKS, SHEFFIELD, SOLE MANUFACTURERS of HOWELL'S PATENT
HOMOGENEOUS BOILER.-PLATE METAL, combining the strength and durabiity of steel with the mallesbility of copper; warranted to bear double the pressure
of the best boiler-plate iron; RIVETS, ANGLES, and STAYS of the same material.
Also, RUSSELL and HOWELL'S PATENT CAST-STEEL TUBES, for multitubular
boilers, shafting, railway sxies, &c.—Application to be made to SHOKTRIDGS, HOWELL,
and JESSOP, Hartford Steel Works, Sheffield; and Mesers. HARVEY and Co., No. 12,
Haymarket, London.

WALKER'S PATENT DRY STAMPING MACHINERY adapted for every kind of ORES. The success of those in use show that the work is done QUICKER, the stuff FINER, and will be found invaluable for EXTRACTING GOLD and SILVER.—Pactory, 17, Cowper-street, City-road, where everything for mining purposes can be obtained.

ATENT SAFETY FUSE.—The GREAT EXHIBITION PRIZE MEDAL was AWARDED to the MANUFACTURERS of the ORIGINAL SAFETY FUSE, BICKFORD, SMITH, DAVEY, and PRYOR, who beg to inform Merchants, Mine Agents, Railway Contractors, and all persons engaged in Blasting Operations, that, for the purpose of protecting the public in the use of a genuine article, the PATENT SAFETY FUSE has now a thread wrought into its centre, which, being patent right, infallibly distinguishes it from all imitations, and ensures the continuity of the gunpowder.

This Fuse is protected by a Second Patent, is manufactured by greatly improved machinery, and may be had of any length and size, and adapted to every climate.

Address,—BICKFORD, SMITH, DAVEY, and PRYOR, Tuckingmill, Cornwally,

AFETY FUSE.— Messrs. WILLIAM BRUNTON and CO., PEN-HALLICK, near REDRUTH, CORNWALL, MANUFACTURERS OF FUSE, of every size and length, as exhibited in the Great Exhibition of 1881, and supplied to the Royal Areenal at Woodwich, the Arctic Expedition, and every part of the globe. Messrs. BRUNTON & CO. are at all times PREPARED to EXECUTE UNLIMITED ORDERS for SUPPLYING FUSE direct from their own MANUFACTORY, upon warrant that it will prove equal to, if not better, than any to be procured elsewhyge.

SHAFTING, SHAFTING, SHAFTING
ROLLERS, ROLLERS, ROLLERS.
SPINDLES, SPINDLES, SPINDLES,
THE BEST MAKER, SCREWS, MANDRILLS.
THE BEST MAKER IS HARRY BENTLEY, EAGLE WORKS, SALFORD,
MANCHESTER.
N.B. Every description of Turning, Planing, Boring, and Screw-Cutting. 1344

THE STEAM -ENGINE BEING THE INFELLING POWER.

No. 1957; London Gazette, July 31, 1857: "To Jeffries Kingsley, of 15, Bedford-square, Losdon, Lieutonant H. P. 3d Dragoons; for the invention of obtaining a primary motive power, namely, the water of a river, which causes a vacuum in an exhausting receiver E." &c. Briefsy, the laying down of the rarefied air cylinder A from a mine to a river with a fall in the current.

Such of the proprietors, whose mines are situate within the distance of ten miles from a river, desirous of saving the expense of fuel, may receive overy information, which they may submit to their engineers, by applying to the above address. As the treatise wherein the engine is described contains eight 800 pages closely printed, exceeding 6000 words, exclusive of vacuum tables, the forwarding of two postage stamps is requested. As the engine may be applied to the supplying of towns with water, it may prove advantageous to the civic authorities.

LECTRIC TELEGRAPH.—REID AND CO., TELEGRAPH
ENGINEERS, and CONTRACTORS for FITTING-UP TELEGRAPHS in
HINES and COAL FITS, by means of which the overseer can communicate instanancously with any part of the workings, effecting a great saving in time, and prerent many accidents.
Office, 262, Gresham House, Old Broad-street, London;
Works, 25, University-street, Tottenham-court-road.

MPROVED GUTTA PERCHA.—P. A. GODEFROY'S PATENT.

-Engineers of telegraph lines, and all others concerned in the guita percha
manufacture, are invited to ENGUIRE into the MERLITS of this COMPOUND, which
is proved by comparative testing to be manifestly superior in elasticity, durability,
independence of atmospheric influences, and striking economy, both in first cost, and
power of endurance in every way.—Address the Patentee, 3, King's Mead Cottages,
New North-road, Islington.

ASSAY OFFICE AND LABORATORIES,
DUNNING'S ALLEY, BISHOPSGATE STREET WITHOUT, LONDON.
Conducted by John Mitchell, F.C.S., Author of "Mannai of Practical Assaying,"
Metallurgical Papers, &c.
Assays and Analyses of every description performed as usual. Special Instruction in Assaying and Analyses. Consultations in every branch of Metallurgical and Manufacturing Chemistry. Assistance rendered to intending Patentees, &c.

For amount of fees, apply to the office, as above.



Mesars. Knowles and Buxton can with confidence bring before the public their IMPROVEMENT in TUYERES, having proved their utility at Mr. Knowles's furnace, Brimington Moor, as well as at other furnaces in the surrounding neighbourabood. They are now perfectly satisfied that one trial will be sufficient to convince bood. They are now perfectly satisfied that one trial will be sufficient to convince bood. They are now perfectly satisfied that one trial will be sufficient to convince bood. They are now perfectly satisfied that they are the CHEAPEST and BEST ever offered to the public. The annexed diagrams shows the principle to be both simple and ered to the public. The annexed diagrams shows the principle to be both simple and ered to the public. The annexed diagram shows the notice of the tuyers, which is made of thin tubing (without the incumbrance of cast-iron), allowing the cooling mode of thin tubing (without the incumbrance of the tuyers, which is not the case with those generally in use. After taking into consideration the first cost, and the advantage of being able to work them longer without the loss of time in replacing or injuring the metal, they will be found, after a fair and impartial trial, to be most decidedly a great advantage to farnace proprietors.

Mesers. Knowles and Buxron are prepared to SUPPLY hot-blast furnace tuyers, with scokets, at 35s. each; without sockets, at 35s. each; smiths' forge tuyers, at 15s. each; delivered at Chesterfield Station.

PATENT STEAM PACKING, VULCANIZED INDIA TUCK'S PATENT ELASTIC PACKING AND PATENT METALLIC LININGS,

METALLIC LININGS,
FOR STEAM-ENGINES, PUMPS, &c.
ADVANTAGES.—A more perfect vacuum is obtained, friction reduced, great saving is cil and tallow, and the packing is gradually and completely worn away without becoming hard, thus obviating the necessity of drawing the old nacking.

Orders received for the Patent Packing, also for Vul-enfised India Rubber, in sheets, valves, &c., at the Offices of the Patent Steam Packing Comp., 47, Mark-lane, E.C.

PATENT PORTABLE MINING ENGINES.

These ENGINES have been SUCCESSFULLY EMPLOYED for years in

PUMPING AND WINDING, in every part of the United King-dom, and a

LARGE STOCK IS NOW READY FOR DELIVERY, either to rent or purchase, from 4-horse to 40-horse power.

Apply to Mr. T. CRESSWELL, enneer, 92, Blackfriars-road.





HEMP AND WIRE ROPES

OF EVERY DESCRIPTION.



JOSEPH CRAWHALL AND SONS, ST. ANN'S HEMP AND WIRE ROPE WORKS, EWCASTLE-ON-TYNE.

HALEY'S PATENT LIFTING JACK,

MANUFACTURED BY THE INVENTOR,

JOSEPH HALEY,

ALBION STREET, GATTHOPS, MANCHESTER.

SCREW JACKS, SHIP JACIS.

SLIDE AND CENTRE LATHES, PLANING, SHAPING, BORING, DRILLING, SCREWING, WHEEL OUTTING, AND OTHER MACTINES.

RIVET MAKING TACHINES.



THE ONLY REAL CURE WITHOUT INWARD MEDICINE IS

ROYAL BATH PLASTERS,

For Coughs, sethma, Hoarseness, Indigestion, Palpitation of the Heart,
Croup, Hooping Cough, Influenza, Chronic Strains, Bruises, Lumbago, or Pains in
the Back, Spinal and Rheumatic Affections, Diseases of the Chest, and Local Pains.
Prepared only by ROBERT ROFER AND SON, Chemists, Sheffield, on medico-chemical
Principles, from Etitish Herbs and the Gums and Balsams of the Eastern Clime,
where—

"The trees drop balsam, and on all the boughs,
"Health sits, and makes it sovereign as it for direct by post on recepit of 1s. 4d., or 1s. each in postage stamps. Sold by most Patent Medicine Vendors
in the United Yingdom.

BEWARS OF INITATIONS!—Be particular, and ask for ROFER'S PLASTER.

THE SECRET INFIRMITIES OF YOUTH AND MATURITY.

Brwars of Imparions!—Be particular, and ask for Ropen's Plaster.

Just published, price one shilling; post free, in an envelope, for 13 stamps.

ELF-PRESERVATION; a Medical Treatise on the Cure of Nervous and Generative Debility, resulting from vicious habits acquired during the critical passage from youth to manhood, with Practical Observations on the Physiology of Marriage, in its social, moral, and physical relations. To which are added, Remarks on the Wonders of the Microscope in revealing the hidden mysteries "to fife within life," and its advantages in detecting, by urinary examination, the cause and effect of every variety of these complaints, with numerous engravings and causes. Ey Sawsel Law Marr, M.D., 37, Bedford-square, London.

Also, by the same Author, price is.; free by post for 13 stamps.

The SCIENCE OF LIFE; or, How to Ensure Moral and Physical Happiness.

Published by J. Allen, 20, Warwick-lane, Paternoster-row; and may be bad of Mann, 39, Cornhill; Horne, 19, Leicoster-square; Gordon, 146, Leadenhall-street; or from the Author, who may be consulted daily, from Eleven till Two, and from Significant and the residence, 37, Bedford-square, London.

THE GREAT EUROPFAN REMEDY

rill Eight, at his residence, 37, Bedford-square, London.

THE GREAT EUROPFAN REMEDY
FOR NERVOUSNESS, RELAXATION, AND EXHAUSTION.
Protected by Royal Letters Patent, and sanctioned by all the great Continental Colleges of Medicine.

DR. DE ROOS' CELEBRATED GUTTÆ VITÆ, OR LIFÆ, DROPS, are the great European remedy for Spermatorrhom, Exhaustion, Nervousness, Debility, Incapacity for Society, Study, or Business, Shaking of the Hands and Limbs, Indigestion, Flatulency, Shortness of Breath, Consumptive Habits, Dimness of Sight, Dizxiness, Pains in the Head, Eruptions, Blotches, Pimples, Sore which mercury, earsaparilla, &c., are not only employed in vain, but too often to the vitor destruction of the sufferer's health. Their almost marvellous powers minst be felt to be believed. Hundrede of apparently hopeless cases, which had been given up by the faculty, have been speedily eared, and many thousands have derived almost mraculous relief, when everything else had signally failed.

Price 11s., and four times the quantity 33s, per bottle, obtainable through all medicine vendors; of whom also may be had the "Medical Adviser," 2s. 6d. in scaled envelope; or it may be sent direct from the author for 42 peans y samps.

Advice and medicines sent to any address secure from observation, on receipt of a fail detail of the case and the usual fee of 51: Post-office orders payable at the 10-born Office to Walter De Roos, M.D., 10, Berner's-street, Oxford-atreet, London. N.B. Sheald difficulty arise in procuring the above, enclose the amount per Post-office order, or otherwise, to 10, Berner's-street, and they will be sent securely packed, per return.

HOLLOWAY'S PILLS.—This medicine has been constantly increasing in public estimation for years, and is now asknowledged to be the most wonderful remedy in the world; it acts directly on the system, removing all obstructions from the stomach, renovating the eprings of life and purifying the blood, totally eradicating saying, liver complaints, that mainspring of so many diseases—indigestion, loss of appetite, pain in the side, and general debility; it is also a remedy on which the asthmatic may place the greatest dependance, and obtain perfect restoration to health.—Sold by all medicine vendors throughout the world; and at Prof. Holloway's establishments, 244, Strand, London, and 89, Maiden-lane, New York; and by A. Stampa, Constantinople; A. Guidsey, Smyraa; and E. Muir, Maila.

11

[SEPT. 19, 1857.

# THE MINING JOURNAL, RAILWAY AND COMMERCIAL GAZETTE.

THE MINING SHARE LIST.	Shares. Pold. Last Price. Pressn. Shares. Good Rosswall Hill & Ransom United 2 3 3 2½ 3 1024 East Buller (copper), Redruth 12 1½ 15 16 1024 Rosswall Hill & Ransom United 2 3 3 2½ 3 1024 Rosswarns and Heriand United 2 5 6 5 6
gh.res. Mines. Puid. Last Price. Presont. Dividends per Share. Last Paid. 8120 Alfred Copsols (cop.) Phillsek* [8.E.]21, 11s. 10d	6000 Fast Cornwall Cone (lin & en.) 21/ 3 4096 Bosewarne Consols
4000 Bedford United (copper), Tavistocky 91, 6s. 8d. 8 64 64 911 6. 8 6 6-Aug. 27, 1357.	5000 East Foway Consols   15
249 Bosecan (tin), St. Just 20½ 100 105 21 0 0 3 0 0—Sept. 4, 1857.  293 Botallack (tin, copper), St. Just 215 25 260 270 410 5 0 5 0 0—Aug. 18, 1857.  200 Brightside and Frogratt Grove, Derbyshire. 3 4 4½ 3 9 0 3 0 0—Aug. 30, 1856.  201 Rrynford Hall (lead), Flinit 20 80 70 80 13 0 0 5 0 0—July 31, 1856.	2000 East Reneer (copper), Crowan. 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1000     Bryntall, Liantiles, Montgomeryshire     7½     2     1 1½     0 50     0 50     July 1, 1856.       440     Badnick Consols (tin), Perran     2½     6     6     0 100     0 100     Market Sp. 1857.       6000     Bwish (sliver-lead), Cardiganshire     35. 1s. 56     1     1     0 26     0 36     July 30, 1856.	4096 East Providence (tin), Uny Lei. \ \ 2\forall \ 2\forall \ 2\forall \ 1000 South Carn Brea (cop.) [S.E.] \ \ 2\forall \ 1 \ \ 6000 South Clifford United, Gwennap \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1000 Carn Brea (sopper, tin), Illogan 15 60 40 45 235 10 0 2 0 0 - May 22, 1847. 2048 Carnyorth (tin), St. Just 4/2 5 5/2 0 15 0 0 8 0 - June 16, 1856.	1000 East Rosewarne (tin), Crowan 5
200   Cefn Cwm Brwyno (lead), Cardiganahire   35   35   3   0   0   3   0   0   0   10   0   2   2   2   2   2   2   2   2	119 East Wheal Agar 67 10 2000 South Gorland and Reliation 1 2 5 6000 East Wheal Clifford (copp.), Ken 2 1 1 1 1 6000 East Wheal Robert (copper) 3 1 1 6000 East Wheal Robert (copper) 3 1 6 6000 South Hingston (tin), Caletock 2s. 4 6000 South Hingston (tin), Caletock 2s. 4 6000 South Lady Bertha (copper) 3 5 7 7 1 1000 East Wheal Russell, Taristock 49 6. 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	4000 East Wheal Russell, Tavistock 49 6. 2 156 6000 Bouth Lady Bertas 53 7 7 5000 Fee Donald (lead) 8. 6d. 5 1024 South Providence (tin), Sithney £3 7 7 1105 So. Wh. Crofty (cop.), Illogan £1 18 10 8 7 1 1105 So. Wh. Crofty (cop.), Illogan £1 18 10 8 7 1
280   Perwent Minos (silver-lead), Durham.   300   150   130   122   00   10   00 - June 25, 1857.     1024   Devon Great Consol's (cop)-, Tavist.* [S.E.]   1   460   460   470   578   00   10   00 - June 25, 1857.     1025   Ding Dong (tin), Gulval+   33   25   252/6   16   76   1   10   0 - Mar. 2, 1857.     1026   Ding Dong (tin), Camborne*   257   310   300   320   935   00   8   00 - Marg. 1, 1857.     1027   Drake Walls (tin, copper), Calstock   1.19s.   2%   2½   2½   0   13   6   0   2   0 - 8ept. 11, 1857.     1028   Drake Walls (tin, copper), Calstock   1.19s.   2%   2½   2½   2½   0   13   6   0   2   0 - 8ept. 11, 1857.     1029   Drake Walls (tin, copper), Calstock   1.19s.   2%   2½   2½   2%   0   13   6   0   2   0 - 8ept. 11, 1857.     1020   Drake Walls (tin, copper), Calstock   1.19s.   2%   2½   2%   2%   2%   2%   2%   2%	5000 Fox Tor Airenny (t. &c.), Limit. 5 3 1024 So. Wh. Enton (cop.), Can Sorre 5 10 10 5000 Frank Mills, Devon 3 6 3 3 10 10 6000 South Wheal Wrey 3 3 4
179 Dolcoath (copper, tin), Camborne* 2274 310 200 326 935 0 0 8 0 0 -Aug. 10, 1887. 12800 Drake Walls (tin, copper), Calstock Lt. 19s. 2½ 2½ 0 13 6 0 2 0 -Bept. 11, 1857. 300 Fast Daren (lead), Cardiganshiret 32 100 100 30 0 0 8 0 0 -Aug. 27, 1857.	5000 Garreg (lead), Flint 500 5 13 6 5 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6
Past Daren (tex), Cardiganeniret   32   100   100   30 0 0 0 3 0 0 -Aug. 27, 1857, 2045   East Falmouth (lead)   2   2\frac{1}{3} \ 3   2\frac{1}{3} \ 3   0 2 6 0 0 2 6 -Julj 13, 1857, 205   205 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5000 E.Rosewarne(cop.,tin), Owinear £1 3 \$ 1
5700     Exmouth (silver-lead)     43, 14s.     8     3 1 0     0 3 6-Aug. 24, 1857.       1400     Eyam Mining Company (lead), Derbyshire.     3     60     59 61     14 13 4     1 0 0-Aug. 24, 1857.       4940     Fowey Consols (copper), Tywardreath     4     7     7     41 4 3     0 6 0-Feb. 17, 1857.	4000 Great Dowgss 4% 3 3 5 6000 Tolvadors, Ratasion 485 5 3¼ 1½ 15000 Great Hewa United (tin) £1 17 1 1024 Trebarah, Perranuthnoe £8 5 3¼ 1½ 13864 Great Onelow Con., Camelford. 1 ½ 5 5000 Treburgett Crowna (Limited) 5 5
1	1000   East Wheal Rusert (copper)   4
1024     Gonzmena (copper), St. Cleer     138     15     10 12     0 7 6     0 7 6 — Dec. 21, 1852, 243       243     Grambler and St. Aubyr, (copper)     10912     90     80 90     4 0 0     2 0 — July 7, 1857, 850, 243       6000     Great South Tolgras (c. L.)     25     1856     17     0 16 6     0 10 — Aug. 20, 1857.       82666     Great Wheal Wor     187     187     187     187	5120 Great Wheal Baddern (tin)
28666 Great Wheal Vor (".ft, cop.), Helston [S.E.] 7% 3% 2% 2% 0 50 0 8 0—June 20, 1855. 110 Great Work (tin), Germoe 100 140 221 10 0 7 10 0—Feb. 27, 1857. 1024 Herodsfoot (".cad), near Liskeard 8% 8% 88% 2 12 6 0 7 6—Apr. 18, 1854.	14000 Gt. Treyune Consols, Allaraun.
1024 Herodsfoot (.ead), near Liskeard	3000 Gwinear Consols (copper) 5 4 5 4 5 16 Trinity (copper, lead) 250
76 Jamaica (lead), Mold, Flintshire	10000 Hill Bridge Consols
20 Laxey Mining Company, Isle of Man 100 1000 1420 0 0 .50 0 0 — Mar. 10, 1851.  21 Levant (copper, tin), St. Just. 2½ 90 90 100 1062 0 0 .4 0 0 — May 12, 1857.  24 409 Levin Mines (tin, copper), St. Erth. 3i, 15s. 11½d. 3½ 3½ 3½ 0 10 0 0 10 0 — Dec. 20, 1855.  25 400 Lisburne (lead), Cardiganshire, Wales 18½ 120 120 298 10 0 3 0 0 — Aug. 6, 1857.  26 500 Marke Valley (copper), Ozradon .4. 10s. 6d. 3 2½ 3 0 5 6 0 3 0 — Sept. 7, 1855.	5000 Kelly Bray (Id., cop.), Callington 35, 15, 15, 18, 200 West Crimis & Regent United, 43, 4, 45, 44, 45, 45, 45, 18
180	1024 Leeds & St. Aubyn (tin, cop.) \$12 16 3 5\( \) 3\( \) 200 West Nant-y-Mwyn (tin, cop.) \$1. Blasey 1\( \) \( \) \( \) 200 West Par Con. (cop.) St. Blasey 1\( \) \( \) \( \) \( \) 3\( \) 25000 West Par Con. (cop.) St. Blasey 1\( \) \( \) 3\( \) 200 West Par Con. (cop.) St. Blasey 1\( \) \( \) 3\( \) 3\( \) 25000 West Par Con. (cop.) St. Blasey 1\( \) \( \) 3\( \) 3\( \) 3\( \) 25000 West Par Con. (cop.) St. Blasey 1\( \) \( \) 3\( \)
30000 Mining Co. of Ireland (copper, lead, coal) 7 15% 15% 15% 12 15 6 0 10 6—Aug. 1857. 3000 Nanteos and Penrhiw, Limited (£2% shares) 1% 1½ 15% 0 1 6 0 1 6—Apr. 30, 1855.	4474 Lambeat Consols (silver-lead). 1s. 3 68.6d. 12000 Llandudno (copper) 1s. 3 5 50 50 1204 Mill Pool (tin, cop.), 8t. Hilary 10% 2% 2% 2% 1500 Mixon Great Con. (cop.), Leek £1 19 2. 1 120 West West Wheal Bolton 5 50 52 50 550 17 5 1056 West Wheal Bolton 5 50 52 550 550 17 5 17 5 18 West Wheal Bolton 5 50 52 550 550 17 5 18 West Wheal Bolton 5 50 550 550 550 550 550 550 550 550 5
Solid   Soli	12000 Llandudno (copper)   1
470 Newtonarda Mining Company, Co. Down+ . 50 . 35 . 45 . 0 . 1 . 0 Oct. 17, 1856. 200 North Pool (copper, tin), Pool . 334, 38. 10d. 70 . 60 . 70 . 324 . 0 . 2 . 0 Dec. 26, 1854. 140 North Roskear (copper), Camborne 50.7 s. 6d . 150 . 170 . 750 . 0 . 4 . 0 Begt. 26, 1853. 480 North Wheal Basset (cop, tin), Illo.* (S.E.) ssil. 15 . 14 . 15 . 13 . 13 . 0 . 0 . 10 Aug. 26, 1857. 480 . Compole, St. Blazer [S.E.] . 1 ½ . 21 . 20 . 21 . 29 . 14 . 0 . 1 . 10 June 30, 1857.	10000 Milxon (cep.), South Moniton. 13   1   1   10000 Mollan (cep.), South Moniton. 13   3   4   10000 Mollan (cep.), South Moniton. 13   3   4   10000 Mollan (cep.), South Moniton. 13   3   4   10000 Mollan (cep.), South Moniton. 13   20   2300 West Wheal Jane   22   3   2   2   2   2   2   2   2
Par Consols (copper), 8t. Blasey [S.E.]   1\( \)   21   20 21   29 14 0   1 10 0 - June 30, 1857.	320 Nent Force, Alston. 1 1½ 1 1/2 1½ 1200 New Crow Hill (lead) 1½ 1 1½ 1½ 1200 New Machno Slate and Slab Co. 10 9 512 Wheal Eray (copper), Altarnun £1 2 15 512 Wheal Clinton (lead)
2 wydol and Dachelddon (lead)	2400 New Machno Slate and Slab Co. 1
13900 Sortrage Consols (cop.), Whitchurch [8.E.] 6s. 2 2 2 4 0 100 0 0 2 6—July 27, 1887. 256 South Grandon (copper), St. Cleer [8.E.]. 2½ 350 340 345 474 00 0 8 0 0—July 28, 1857.	1024 North Ding Dong (tin), Madron 1
12   12   13   13   13   13   10   0   1   10   0   0   10   0   10   0	1024 North Ding Long (Link), salaron   1
280 Spearne Mook (copper), St. Just	2000 North Levanit (lin,eop.), St. Just 6 / 4 3 / 4 1070 Wheal Enjs(tin), "end-took. 20 / 6 8 5 112 North Penhaldarva 1 / 4 5 5 5 12 North Rosewarze, Gwinear 4 / 5 5 1024 North Rosewarze, Gwinear 5 1 4 1 15 15 15 15 15 15 15 15 15 15 15 15 1
94 St. Ives Consols (sin), st. Ives	4006 North Tavy (copper)
2043 Trehana (eliver-lead) Menheniot 4 44 8 8 3 6 0 5 0 - April 13, 1857.  572 Trelyon Consols (tin), 4 Ires 115 204 21 1 15 0 1 0 0 - Feb. 21, 1884.	1024 No. Wh. Gilbert (cop.), 8t. Erth £1 19 2 1544 N.Wh. Robert, Sampford Spiney 2 \( \) . 3\( \) . 3\( \) . 3\( \) . 3\( \) . 4 1540 North Wheal Trelawny 2\( \) 3\( \) . 3
2048 Trelana (aliver-lead) Menheniot	4096 N. Wheal Wrey Consols, St. Ive 6s. 6d 114 114 1024 Wheal Margery (thi marge
100 Trumpet Consols (tin), near xelation 95 13/ 11/ 11/ 11/ 11/ 11/ 11/ 11/ 11/ 11/	4090 Old Tor (field), Calstock
0000 Vale of Towy (lead), Carmarthe [8,E.] \$ 100	5538 Old Trewether Consols
256 West Caradon (copper), Liskeard (2 1 2 2 2 1 11 2 0 0 15 0 3 19 12 2 18 7 2 1 12 0 0 15 0 3 19 12 18 1 12 0 0 15 0 3 19 12 12 1 1 12 0 0 15 0 3 19 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36829 Pembroke & Bast Crisnis (eop.) \$1 6 6. 4 4 4000 Wheal Rissell (992) 4000 Wheal Rissell (1992) 55 5000 Pencorse Consols, St. Enoder 25 14 192 Wheal Sidney, Plympton 55 34 4935 Pendern Consols, St. Just 13 2 24 3 4096 Wheal Rissell (1992) 55 6 34 4096 Wheal Rissell (199
400 West Wheal Seton (copper), Camborne 88% 330 335 345 85 10 0 8 0 0 -Aug. 11, 1852.  1228 Wheal Arthur (copper), Calstock 8 3% 5 6 10 0 0 10 0 -Oct. 25, 1855.	512 Penhaldarvs
812         Wheal Baset (copper), Illogan* [S.E.]         516         230         220         230         463         100         8         00         Aug. 4         1857           256         V/heal Buller (copper), Redruth* [S.E.]         5         310         290         310         842         100         7         100         Sept. 15, 1857           1024         Wheal Charlotte, Perranuthane         5         310         290         310         842         100         7         100         Sept. 15, 1857	1200 Penstruthal (copper)
250. Wheal Fortescue, Bodmin - 450 250 39 00 6 00 - May 6, 1857. 128 Wheal Friendship (copper), Dayon 1864.	512 Polbreen 2048 Ponterwyd (lead), Cardigan£2 16 6 1 2400 Porkells United (tin) [S.E.] 9 6 6 654 4096 Wb. Zhon (cop., lead), Calstock£5 11 6 1 1 154
10	10000 Pedn-an-drea United (tin)   21   16   1   1   1   2   2   3   4   3   4   3   5   5   6   1   3   4   3   4   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   6   1   3   5   5   5   6   1   3   5   5   5   6   1   3   5   5   5   6   1   3   5   5   5   5   5   5   5   5   5
Vale of Towy (lead), Carmarthe [S.E.]   40   150   150   61   50   2   0 0 - Feb. 13, 1886,	*.* Those mines with [S.E.] appended have been admitted on the Stock Exchange.
1024 Wheal Mary Ann (lead), Menheniott [S.E.] 8 48 47 xd 30 2 6 2 5 0 — Sept. 15, 1857.  80 Wheal Owies, St. Just, Cornwall 70 300 300 220 13 0 5 0 0 — Aug. 2, 1857.  240 Wheal Reeth (tin), Uny Lelant 314 35 35 314 40 10 0 3 0 0 Aug. 23 1857.	Hining Companies Incorporated mith Timited Tisbility.  Nom.cap. Share. Bus. done.  Acadian Charcoal Iron (61. paid)
198 Wheal Seton (tin, copper), Camborne* 107 150 150 284 100 3 0 0 -Aug. 11, 1857. 1040 Wheal Trelawny (ali-id.), Liskeard (8.E.) 446 24 23 24 281 100 1 0 0 -July 27, 1857. 1024 Wheal Tremayne (tin, copper), Gwinearu. 104 5 5 10 2 6 0 7 6 -Jan. 11, 1857.	Ballymoneen Copper
4096 Wheal Wrey (lead), St. Ive+ 11. 9s. 5½ 5½ 2 10 0 0 4 0 June 16, 1857.  8000 Wiaklow (copper), Wicklow 5 29 32½ 38 27 5 6 1 0 0 July 9, 1857.  [* Dividends paid every two months. + Dividends paid every three months.]	Barvarian Coal   2000   1   Manchester and Festinlog Slate and Slab 75000   10   Berehavea   2000   1   Maria Cornols Sliver-Lead   13200   1   1320
	Bon Accord Copper   75000   1
10000 Brasilian Laperial (gold), Braxil [S.E.] 281/2 13/2 34 17 6 0 15 0—Nov. 21, 1853. 2464 Burra Bu/ra (copper), South Australia 5 114 115 x 185 0 0 5 0 0—June 5, 1857.	Brynglas Silver-Lead 6000£1 10 New Holtsappel Mining 5000 100
10000 Copiar, 6 Mining Company, Chili (8.E.) 40 45 47 49 85 12 0 1 0 0—July 21, 1857. 20000 General Mining Assoc, Nova Scotis [S.E.] 18 12 10 12 5 8 0 0 10 0—May 9, 1856. 18000 List 19 10 0 0 10 0—June 26, 1856.	Cardigan South Bog Mining 6000 1 Ola 1 Ola 2 100000 12 15 Cartigan South Bog Mining 6000 1 Oola 5000 21 10 1% Castell Lead Mining 6000 300 Cosm's Hill 20000 5 5
10000 L'attanian (of Portugal) [8.E.] 1.6 8 1/8 8x xd 4 5 6 0 5 0 - June 25, 1857. 103815 4 ariquita and New Granada [5.E.] 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	Clark Castle
FOREIGN MINES.  5000 Alten Mining Company (copper), Norway, 514%  1000 Brasilian Laperial (gold), Brazil [S.E.] 25%  114 13 24 34 17 6 0 10 0—Dec. 13, 1844.  2454 Burra Bu; ra (copper), South Australis. 5 114 115 xd 185 0 0 5 0 0—June 5, 1857.  10000 Copiar, 6 Mining Company, Chili (S.E.] 16 12 10 12 5 0 0 10 0—May 9, 1856.  10000 Lir area (lead), Fozo Ancho, Spani (S.E.] 3 18 16% 117 9 100 0 10 0—June 26, 1856.  10000 Lir area (lead), Fozo Ancho, Spani (S.E.] 3 18 16% 117 9 100 0 10 0—June 26, 1856.  10000 Lir area (lead), Fozo Ancho, Spani (S.E.] 3 18 16% 117 9 100 0 10 0—June 25, 1857.  10000 Lir area (lead), Fozo Ancho, Spani (S.E.] 3 18 16% 117 9 100 0 10 0—June 26, 1856.  10001 Lir area (lead), Fozo Ancho, Spani (S.E.] 3 18 16% 117 9 100 0 10 0—June 26, 1856.  10001 Lir area (lead), Fozo Ancho, Spani (S.E.] 3 18 16% 17 9 100 0 10 0—June 26, 1855.  10001 Lir area (lead), Fozo Ancho, Spani (S.E.] 3 18 18% 17 9 100 0 10 0—June 26, 1855.  10001 Lir area (lead), Fozo Ancho, Spani (S.E.] 3 18 18% 18 18 18 18 18 18 18 18 18 18 18 18 18	Bute Merthyr Steam Coal   S0000   30   North Staffordanire Coal and 1701   10000   1   1   1   1   1   1   1
15 12 11½ 12 34 76 1 0 0—Nov. 26, 1856. S0090 Mexican and So. Amer. Smelting Co. [S.E.] 10 3 2½ 615 0 0 7 6—Dec. 12, 1855.	Den Mountain Conner 75000 1 114 Rotherbam and Masboro' Coal
NON-DIVIDEND FOREIGN MINES.	
20000 Australian [S.E.]	Exhell Coal Forest of Dean and South Wales Iron. 250000 10 South Bog Lead South Water I Iroland Mining 14000 62 10
20000 Australian (S.E.)   7	Fort Bowen, New.   3\$000   1   South-West of Ireland Mining   15000
25000 Fortuna   2   1%   1%   17   27   27   27   27   27   27   27	Stoney Way   1000   1
25000 Liberty, Virginia   1   -	Great Weish Union Siste   25000   5   Hennock Black Ore   800   10s.   1½   Talicain Bilver-Lead   25000   5   Hopton Wood Stone   18000   50   Victoria Foundry   50000   50   Victoria Foundry   50000   5   Victoria
PROGRESSIVE MINES. Shares. Paid, Last Price, Present.	
9000 Abbey Connols (lead) Configuration Fold. Last Price. Present. 916 Cargoll (silver-lead), Newlyn £12 7 3 15 10 12	Little Down and Ebber Rocks 50000 2 2 21/6 Wharfedale Mining
#Acres.  #Ac	Little Down and Ebber Rocks
6:00 Abbey Consols (lead), Cardigan, 14s, 6d. 14 1 12590 Arussell (logo), near Ashburton 2 45 256 Carmarthen United (lead) 256 256 256 256 256 256 256 256 256 256	Little Down and Ebber Rocks 50000 2 2 2% Liverpool and Pwilheli Granite 15000 10 Liangoline Blate and Slab 5000 100 Liangoline Blate and Slab 5000 5 Workington Hematite Iron Company. 25000 50 Workington Hematite Iron Company. 15000 1%  **Transartiums on the Stark Errhange.**
Paid   Last Price   Procent   Last Price   Las	Little Down and Ebber Rocks 50000 2 2 2 3 2
## Shares   Paid   Last Price   Price   Paid   Last Price   Price   Paid   Last Price   Paid   Paid   Last Price   Paid   Pa	Little Down and Ebber Rocks 50000 2 2 2 3 2
Prior   Prio	Little Down and Ebber Rocks 50000 2 2 2 3 2
Prior   Prio	Little Down and Ebber Rocks 50000 2 2 2 3 2
15000 Abbey Consola (lead), Cardigan, 14s.6d   14	Little Down and Ebber Rocks 50000 2 2 2 3 2
Post   Price	Little Down and Ebber Rocks 50000 2 2 2 3 2